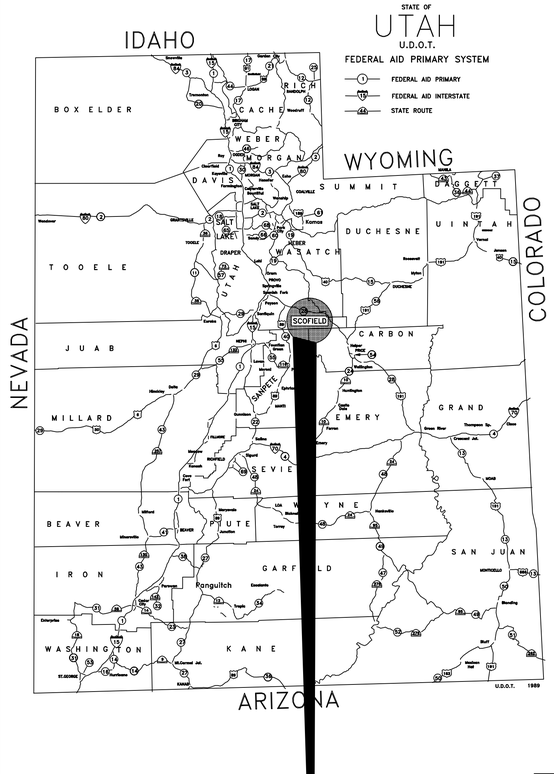


50 FRONT STREET
SCOFIELD, UTAH 84526
NO SCALE

N

UDOT MAINTENANCE STATION #4435A

50 FRONT STREET SCOFIELD, UTAH 84526

CONSTRUCTION DOCUMENTS

DFCM PROJECT #08300900
CONTRACT #97236
FEBRUARY, 2009

PREPARED BY

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373
Ralph Stanislaw

CONSULTANTS

CIVIL
PEPG Engineering
8805 S. Sandy Parkway
Sandy, Utah 84070
Telephone: (801) 562-2521
Fax: (801) 562-2551
Darrin Smith
Darrin@pepg.net

STRUCTURAL
BHB Consulting Engineers
244 West 300 North
Suite 202
Salt Lake City, Utah 84103
Telephone: (801) 355-5656
Fax: (801) 355-5950
Gerald McKenzie
gerald.mckenzie@bhbengineers.com

MECHANICAL
PVE Inc.
1040 North 2200 West
Salt Lake City, Utah 84116
Telephone: (801) 359-3158
Fax: (801) 521-4114
Alan Spendlove
adspendlove@pve-ut.com

ELECTRICAL
PVE Inc.
1040 North 2200 West
Salt Lake City, Utah 84116
Telephone: (801) 359-3158
Fax: (801) 521-4114
Roger Riddle
rkriddle@pve-ut.com

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	Uniform Code for Building Conservation	N.A.
International Plumbing Code	2006	ADA Accessibility Guidelines-ANSI A117.1	2003
International Fire Code	2006		
International Energy Conservation Code	2006		

A. Occupancy and Group: S2 GARAGE, B OFFICES ACCESSORY

Change in Use: Yes _____ No X Mixed Occupancy: Yes X No _____
Special Use and Occupancy (e.g. High Rise, Covered Mall): N.A.

B. Seismic Design Category: D Design Wind Speed: 90 MPH

C. Type of Construction (circle one):

I A | I B | II A | II B | III A | III B | IV HT | V A | (V B)

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: YES Nonseparated Uses: YES

F: Group S-2 Fire Area (Maintenance building) = 4,600

Sprinklers Required: NO Provided: NO Type of Sprinkler System: N.A.

G: Number of Stories: 1 Building Height: 24'-6"

H: Actual Area per Floor (square feet): 4,600 SF

I: Tabular Area (Table 503): 13,500 SF (S2 Occupancy)

J: Area Modifications (Section 506.1):

a) $A_a = A_t + \left[\frac{A_t I_f}{100}\right] + \left[\frac{A_t I_s}{100}\right]$ $\qquad I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$

$$25 = 100\left[\frac{142}{284} - .025\right]\frac{30}{30}$$

$$16875\ SF = 13500 + \left[\frac{13500\ (25)}{100}\right] + \left[\frac{13500\ (0)}{100}\right]$$

b) Sum of the Ratio Calculations for Mixed Occupancies (508):

B/S2 = 237/4363 = 5.4% < 10%

Therefore B is less than 10% and is less than 750 SF and is not considered a separate occupancy.

c) Total Allowable Area for:

1) One Story: 16875 SF
2) Two Story: $A_a(2)$ N.A.
3) Three Story: $A_a(3)$ N.A.

d) Unlimited Area Building: Yes _____ No X Code Section: _____

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0	N.A.	Floors - Ceiling Floors	0	N.A.
Interior Bearing Walls	0	N.A.	Roofs - Ceiling Roofs	0	N.A.
Exterior Non-Bearing Walls	0	N.A.	Exterior Doors and Windows	0	N.A.
Structural Frame	0	N.A.	Shaft Enclosures	0	N.A.
Partitions - Permanent	0	N.A.	Fire Walls	0	N.A.
Fire Barriers	0	N.A.	Fire Partitions	0	N.A.
			Smoke Partitions	0	N.A.

L. Design Occupant Load: 12* (Per IBC TABLE 1004.1.2 Using 500 S.F. per Occupant for garages, 100 S.F. for office areas)

Exit Width Required (1005): 2.4" Exit Width Provided: 36"

M. Minimum Number of Required Plumbing Facilities: *UNISEX (IBC SECTION 2902.2 EXCEPTION 2)

Actual Occupant Load: 4 BASED ON ACTUAL UDOT STAFFING

a) Water Closets - Required 1* Provided 1* UNISEX
b) Lavatories - Required 1* Provided 1* UNISEX
c) Bath Tubs or Showers: 1 (EMERGENCY EYEWASH)
d) Drinking Fountains: 2 Service Sinks: _____

GENERAL NOTE: 1

1. CONSTRUCTION OF NEW STATE BUILDINGS AND REMODELING 0F EXISTING BUILDINGS SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE DFCM STANDARDS, INCLUDING ENHANCED ACCESSIBILITY. TO THE BEST OF OUR KNOWLEDGE, DRAWINGS & SPECIFICATIONS INCORPORATED HEREIN CONFORM WITH DFCM STANDARDS FOUND AT THE FOLLOWING WEB SITE: www.dfcm.utah.gov.

2. EVERY STRUCTURE, AND PORTION THEREOF, INCLUDING NONSTRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED AND CONSTRUCTED TO RESIST TO EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-05. REFERENCE IBC SECTION 1613.1

3. FOR THE PURPOSE OF THIS SECTION, DEFERRED SUBMITTALS ARE DEFINED AS PER SECTION 106.3.4.2 OF THE IBC. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER, ARCHITECT, AND BUILDING OFFICIAL FOR THEIR REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. DEFERRED STRUCTURAL SUBMITTALS FOR THIS PROJECT ARE:

1. OPEN WEB STEEL JOISTS

CLIENT

UDOT CONNECTING COMMUNITIES
STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
05-310519-0301
LICENSED ARCHITECT

ISSUE

MARK	DATE	DESCRIPTION
	2-09	CONSTRUCTION DOCUMENTS
	1-20-09	90% REVIEW SUBMITTAL

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	FEBRUARY, 2009

SHEET TITLE

COVER SHEET

G000

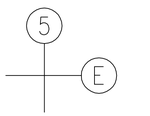
GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE SUBMITTING A BID OR PROCEEDING WITH ANY PORTION OF THE WORK.
2. WHENEVER QUESTIONS ARISE OR CONDITIONS ARE ENCOUNTERED WHICH ARE NOT COVERED BY OR ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS, CONSULT WITH THE ARCHITECT PRIOR TO TAKING ANY FURTHER ACTION.
3. ALL DIMENSIONS ARE TO FACE OF CONCRETE OR FACE OF GYPSUM BOARD, U.N.O.
4. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
5. DIMENSIONS NOTED AS N.T.S. ARE TO BE FIELD VERIFIED.
6. ALL WOOD IN CONTACT WITH OR WITHIN 8" OF SOILS IS TO BE FIELD TREATED FOR MOISTURE, RODENT AND INSECT PROTECTION.
7. THE CONTRACTOR SHALL COORDINATE THE SEQUENCING OF WORK WITH THE OWNER AND ARCHITECT TO MEET THE OWNERS SCHEDULE.
8. CONTRACTOR SHALL LEAVE WORK AREAS BROOM CLEAN AND FREE OF TOOLS, EQUIPMENT, ETC., AT THE END OF EACH SHIFT. ALL CONSTRUCTION ACTIVITY SHALL BE CONTAINED WITHIN CONSTRUCTION BARRICADES OR FENCES. CONTRACTOR SHALL PROTECT OWNERS EXISTING CONSTRUCTION AND EQUIPMENT ADJACENT TO NEW CONSTRUCTION. CONTRACTOR SHALL CLEAN ALL SURFACES TO "LIKE NEW" CONDITION AT THE COMPLETION OF
9. PROVIDE WATER SUPPLY ROUGH-IN AND ELECTRICAL SUPPLY TO IRRIGATION CONTROLS. PROVIDE PVC SLEEVE UNDER PAVEMENTS AND WALKS

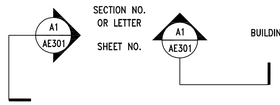
GRAPHIC SYMBOLS

- ASPHALT
- EARTH
- SAND
- CONC. W/ FINISH
- TILE W/ BED
- BRICK
- CMU
- LIMESTONE
- WOOD (BLOCKING)
- WOOD FRAMING
- STEEL
- RIGID INSULATION
- PLASTER
- COMP. FILLER
- METAL LATH
- GRAVEL
- CONCRETE
- CAST STONE
- MARBLE
- GRANITE
- STONE
- PLYWOOD
- WOOD FINISH
- ALUMINUM
- BATT INSULATION
- ACOUSTICAL TILE
- BACKER ROD AND FILLER
- GYPSUM BOARD
- FENCE

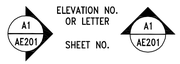
ARCHITECTURAL LEGEND



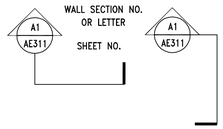
COLUMN CENTER LINE



BUILDING SECTION

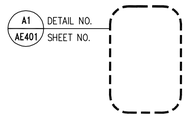


ELEVATION



WALL SECTION

INTERIOR ELEVATION



ENLARGED DETAIL

ENLARGED SECTION DETAIL

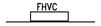
REVISION INDICATION


REFERENCE ELEVATION
OR WORKING POINT

FIRE EXTINGUISHER & VALVE CABINET

FIRE EXTINGUISHER

EXIT SIGN WITH OR
WITHOUT DIRECTIONAL ARROW



FIRE HOSE VALVE CABINET

DOOR REFERENCE

W # WINDOW REFERENCE

WALL TYPES

ABBREVIATIONS

ALT.	ALTERNATE
ALUM.	ALUMINUM
A.B.	ANCHOR BOLT
&	AND
ARCH.	ARCHITECTURAL
@	AT OR AT THE
BM.	BEAM
BLK.	BLOCK
BLKG.	BLOCKING
BD.	BOARD
BOT.	BOTTOM
BLDG.	BUILDING
CLKG.	CAULKING
C.I.	CAST IRON
CLG.	CEILING
CEM.	CEMENT
CTR.	CENTER
	CENTER LINE
CER.	CERAMIC
C.T.	CERAMIC TILE
CFCI	CONTRACTOR FURNISH, CONTRACTOR INSTALL
CFOI	CONTRACTOR FURNISH, OWNER INSTALLED
CLR.	CLEAR (...ANCE)
CLO.	CLOSET
COL.	COLUMN
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUE/CONTINUOUS
CONTR.	CONTRACTOR
C.J.	CONTROL JOINT
CORR.	CORRIDOR
CNTR.	COUNTER
CTSK.	COUNTERSUNK
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
D.S.	DOWNSPOUT
DWG.	DRAWING
D.F.	DRINKING FOUNTAIN
EA.	EACH
ELEC.	ELECTRIC (AL)
ELEV./EL.	ELEVATION
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXP.	EXPANSION
EXT.	EXTERIOR
EW	EACH WAY
FIN.	FINISH
F.A.	FIRE ALARM
F.E.	FIRE EXTINGUISHER
F.E.C.	F.E. CABINET
FLR./FL.	FLOOR
F.D.	FLOOR DRAIN
FTG.	FOOTING
FDN.	FOUNDATION
GALV.	GALVANIZED
G.I.	GALVANIZED IRON
GA.	GAUGE
GL.	GLASS
GR.	GRADE
GND.	GROUND
GYP.	GYPSUM
GYP. BD.	GYPSUM BOARD
HDWR.	HARDWARE
HDWD.	HARDWOOD
HT.	HEIGHT
H.P.	HIGH POINT
HORIZ.	HORIZONTAL
H.B.	HOSE BIBB
HM	HOLLOW METAL
HR.	HOURS (FIRE RATING)
IN.	INCH
I.D.	INSIDE DIAMETER
INUSL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
J-BOX	JUNCTION BOX
KIT.	KITCHEN
LAM.	LAMINATE
LAV.	LAVATORY
LT.	LIGHT
L.P.	LOW POINT
MAINT.	MAINTENANCE
MFR.	MANUFACTURER
M.O.	MASONRY OPENING
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MEN	MEN'S TOILET
MTL./MET.	METAL
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MUL.	MULLION
NOM.	NOMINAL
N.	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO. OR #	NUMBER
OFOI	OWNER FURNISH, OWNER INSTALL
OFCI	OWNER FURNISH, CONTRACTOR INSTALL
OFF.	OFFICE
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
OPP. H.	OPPOSITE HAND
O.D.	OUTSIDE DIAMETER
PTD.	PAINTED
PR.	PAIR
PART.	PARTITION
PED.	PEDESTRIAN
PLAS.	PLASTER
P. LAM.	PLASTIC LAMINATE
PL	PLATE
PM	PRESSED METAL
PLYWD.	PLYWOOD
PT.	POINT
Q.T.	QUARRY TILE
RAD.	RADIUS
R.W.L.	RAIN WATER LEADER
RE:	REFER TO
REFL.	REFLECTED
REINF.	REINFORCING
REQ.	REQUIRED
REV.	REVISED
R.	RISER
R.D.	ROOF DRAIN
RM.	ROOM
R.O.	ROUGH OPENING
SCHED.	SCHEDULE
SEAL.	SEALANT
SECT.	SECTION
S.SK.	SERVICE SINK
SHT.	SHEET
SIM.	SIMILAR
SL./SLP.	SLOPE
S.C.	SOLID CORE
SPEC.	SPECIFICATIONS
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL/STRUCTURE
SYM.	SYMMETRICAL
S.STL	STAINLESS STEEL
TEL.	TELEPHONE
TEMP.	TEMPORARY/TEMPERED
THK.	THICK (NESS)
T & G	TONGUE AND GROOVE
T/CONC.	TOP OF CONCRETE
T/CURB	TOP OF CURB
T.O.P.	TOP OF PLATE
T/WALL	TOP OF WALL
T.	TREAD
TYP.	TYPICAL
UNF.	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
VAR.	VARY OR VARIES
VERT.	VERTICAL
V.T.R.	VENT THROUGH ROOF
W/	WITH
WD.	WOOD
WP.	WATERPROOF
WSCT.	WAINSCOT
W/O	WITHOUT
W.P.	WORKING POINT
W.R.	WATER RESISTANT

INDEX OF DRAWINGS

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

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DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	FEBRUARY, 2009

SHEET TITLE

GENERAL NOTES, ABBREVIATIONS, LEGENDS AND DRAWING INDEX

G001

MASTER KEYNOTE LIST – (APPLIES TO ARCHITECTURAL DRAWINGS ONLY)

DIVISION 2 SITEWORK

02200 EARTHWORK

02200.A0 COMPACTED FILL
02200.B0 GRAVEL BASE
02200.C0 SAND

02513 ASPHALT CONCRETE PAVING

02513.A0 ASPHALT CONCRETE PAVING

02520 PAVING

02520.A0 CONCRETE PAVING
02520.C0 CONCRETE CURB
02520.F0 THICKENED EDGE
02520.G4 CONSTRUCTION JOINT
02520.L3 CONTINUOUS REINFORCING (SIZE, SPACING)

02720 DRAINAGE

02720.D0 TRENCH DRAIN
02720.M0 FLOOR DRAIN – SEE MECHANICAL

02822 CHAIN LINK FENCES & GATES

02822.B1 2" ø GATE FRAME
02822.C1 NEW 6' HIGH CHAIN LINK FENCE – SEE CIVIL
02822.D1 TENSION TIE WIRE
02822.E1 LINE POSTS @ 10'-0" O.C.
02822.E2 LINE POSTS @ 8'-0" O.C.
02822.F1 2" DIAMOND MESH STEEL FABRIC

02831 HORIZONTAL SLIDING GATE OPERATORS

02831.A1 PHYSICAL TRAVEL STOP
02831.B1 HYDRAULIC SLIDE GATE OPERATOR W/AUDIO ALARM
02831.C1 UNDERGROUND OBSTRUCTION LOOP
02831.D1 GATE SENSORS
02831.E1 KEY PAD ACCESS ON PEDESTAL
02831.F1 CARD READER ON PEDESTAL
02831.G1 FIRE ACCESS & KNOX BOX ON PEDESTAL
02831.H1 GATE RECEIVER POCKET

DIVISION 3 CONCRETE

03053 CONCRETE WATER PROOFING ADMIXTURE

03053.A0 CONCRETE WATERPROOFING ADMIXTURE

03054 OLIOPHOBIC TOPICAL CONCRETE SEALER

03054.A0 OLIOPHOBIC TOPICAL SEALER

03055 SALT AND WATER BARRIER

03055.A0 SALT AND WATER BARRIER FOR EXTERIOR CONCRETE

03300 CAST-IN-PLACE CONCRETE

03300.A0 CONCRETE – SLAB ON GRADE
03300.A1 CONCRETE SLAB-ON-GRADE – SEE STRUCTURAL
03300.A2 CONCRETE SLAB-ON-GRADE (THICKNESS)
03300.B1 CONCRETE SLAB – SEE STRUCTURAL
03300.B2 CONCRETE SLAB (THICKNESS)
03300.C0 FOOTING
03300.C1 FOOTING – SEE STRUCTURAL
03300.D0 CONCRETE PAD
03300.E0 RETAINING WALL
03300.F0 CAST-IN-PLACE REINFORCED CONCRETE
03300.G0 CONCRETE OVER METAL DECK – SEE STRUCTURAL
03300.H0 FOUNDATION WALL – SEE STRUCTURAL
03300.H1 CONCRETE PIER – SEE STRUCTURAL
03300.J0 REINFORCING
03300.J1 REINFORCING – SEE STRUCTURAL
03300.J2 #4 BARS CONTINUOUS (QUANTITY)
03300.J3 #5 BARS CONTINUOUS (QUANTITY)
03300.K1 CONCRETE PIPE BASE
03300.L1 30# FELT
03300.M1 MOISTURE BARRIER
03300.N0 CONCRETE CURB
03300.P3 CONTROL JOINT – SEE STRUCTURAL
03300.P4 CONSTRUCTION JOINT
03300.P5 ISOLATION JOINT
03300.P6 CHAMFER JOINT
03300.P7 SAWCUT CONSTRUCTION JOINT, TYP.
03300.Q1 CONCRETE BOLLARD PAINTED (SEE STRUTURAL)
03300.R0 3/4" CHAMFER
03300.S1 SPLASH BLOCK
03300.S2 CONCRETE SWALE
03300.T1 CONCRETE @ STAIR TREAD

DIVISION 4 MASONRY

04200 UNIT MASONRY

04200.A0 CMU
04200.A2 CMU (SIZE)
04200.A3 SPLIT FACE (SIZE)
04200.B0 GROUT SOLID
04200.C0 BOND BEAM (SHAPE)
04200.C1 BOND BEAM – SEE STRUCTURAL
04200.D1 CMU LINTEL – SEE STRUCTURAL
04200.G1 REINFORCING – SEE STRUCTURAL
04200.K2 ANCHOR BOLTS (DIAMETER, SPACING)
04200.M0 WEEP HOLES
04200.N0 METAL FLASHING
04200.Q0 INSULATED BLOCK
04200.R0 MASONRY CONTROL JOINT

DIVISION 5 METALS

05120 STRUCTURAL STEEL

05120.A0 STEEL BEAM – SEE STRUCTURAL
05120.A1 STEEL BEAM – SEE STRUCTURAL – GALVANIZED
05120.A2 STEEL BEAM – SEE STRUCTURAL – PRIMED AND PAINTED
05120.B0 STEEL COLUMN – SEE STRUCTURAL
05120.B1 STEEL COLUMN – SEE STRUCTURAL – GALVANIZED
05120.B2 STEEL COLUMN – SEE STRUCTURAL – PRIMED AND PAINTED
05120.C1 TUBE STEEL BEAM – SEE STRUCTURAL – GALVANIZED
05120.D1 TUBE STEEL COLUMN – SEE STRUCTURAL
05120.D2 TUBE STEEL COLUMN – SEE STRUCTURAL – PRIMED & PAINTED

05220 STEEL JOISTS AND JOIST GIRDERS

05220.A1 STEEL JOISTS – SEE STRUCTURAL
05220.A2 STEEL JOISTS – SEE STRUCTURAL – PRIMED AND PAINTED
05220.B2 STEEL GIRDERS – SEE STRUCTURAL – PRIMED AND PAINTED

05310 STEEL DECK

05310.A1 METAL DECK – SEE STRUCTURAL

05400 COLD-FORMED METAL FRAMING

05400.A0 STRUCTURAL STEEL STUDS – SEE STRUCTURAL DRAWINGS FOR SIZE, SPACING AND GAUGE
05400.A1 6" STRUCTURAL STEEL STUDS – SEE STRUCTURAL DRAWINGS FOR SPACING AND GAUGE
05400.A2 3 5/8" STRUCTURAL STEEL STUDS – SEE STRUCTURAL DRAWINGS FOR SPACING AND GAUGE
05400.B0 STRUCTURAL STEEL TRACK – SEE STRUCTURAL

05500 METAL FABRICATIONS

05500.A1 STEEL ANGLE – SEE STRUCTURAL
05500.A2 STEEL ANGLE (SIZE) – GALVANIZED
05500.A3 STEEL ANGLE (SIZE) – GALVANIZED – PRIMED AND PAINTED
05500.B0 CLIP ANGLE
05500.B2 CLIP ANGLE (SIZE)
05500.C1 SHEET METAL ANGLE – 22 GA. – GALVANIZED (SIZE)
05500.D0 CHANNEL (SIZE)
05500.D1 CHANNEL – SEE STRUCTURAL
05500.D2 HAT CHANNEL (SIZE)
05500.D3 CHANNEL – SEE STRUCTURAL – PRIMED AND PAINTED
05500.E0 STEEL PLATE (SIZE)
05500.E1 STEEL PLATE – SEE STRUCTURAL
05500.E2 STEEL PLATE (SIZE) – GALVANIZED
05500.E3 BENT PLATE – SEE STRUCTURAL
05500.F1 THRU BOLT (DIAMETER)
05500.G1 BENT BAR TAB (THICKNESS)
05500.G2 BARTAB (THICKNESS)
05500.H1 LAG BOLTS (DIAMETER)
05500.J1 PIPE BOLLARD (DIAMETER) – GALVANIZED & PAINTED
05500.K1 GALVANIZED STEEL PIPE RACKS
05500.M1 CHECKERED PLATE (SIZE) GALVANIZED
05500.P0 ANCHOR BOLT(S)
05500.P1 ANCHOR BOLTS (DIAMETER, SPACING)
05500.V0 FLOOR PLATE
05500.X1 STRUCTURAL STEEL STUD (SEE STRUCTURAL FOR GA. & PLACEMENT)
05500.X2 STEEL RUNNER (SEE STRUCTURAL)
05500.Y0 AIR DUCT SCREEN
05500.Y1 AIR DUCT SCREEN – SEE MECHANICAL – PAINTED
05500.Z0 CHAIN – GALVANIZED

DIVISION 6 WOOD AND PLASTICS

06105 MISCELLANEOUS CARPENTRY

06105.L2 BLOCKING AS REQUIRED
06105.P1 2X4
06105.P2 2X6
06105.P6 4X4
06105.P9 2 x FRAMING, FIRE TREATED
06105.P10 PRESSURE TREATED WOOD TIMBER (SIZE)
06105.Q2 SHIM AS REQUIRED
06105.R2 SHEATHING – PLYWOOD (THICKNESS)
06105.R3 PLYWOOD PANEL (THICKNESS) – MECHANICALLY FASTENED THROUGH INSULATION INTO CMU WALL
06105.R4 PLYWOOD PANEL (THICKNESS)
06105.V1 EXTERIOR GRADE PLYWOOD (THICKNESS) – PAINTED
06105.V6 PEGBOARD (THICKNESS)
06105.Z0 ANCHOR AS REQUIRED

06402 INTERIOR ARCHITECTURAL WOODWORK

06402.A0 SILL
06402.B1 PLASTIC LAMINATE BACKSPLASH (HEIGHT)
06402.C1 PAINT GRADE WOOD CAP (THICK)
06402.D1 P. LAM. ON 1/4" PLYWOOD BACKING (FINISH)
06402.E1 WIRE PULL
06402.F1 PROVIDE WHITE MELAMINE FINISH @ ALL INTERIOR SURFACES
06402.G1 3/4" PARTICLE BOARD CABINET TOP W/PLAM (FINISH)
06402.G2 3/4" PARTICLE BOARD CABINET BASE W/PLAM (FINISH)
06402.H0 SHELF(VES)
06402.H1 ADJUSTABALE SHELVES (FINISH)
06402.H2 SHELVING (DEPTH)
06402.J1 RECESSED SHELF BRACKETS
06402.K0 BASE UNIT (FINISH)
06402.K2 BASE UNIT W/ADJ. SHELF(VES) (FINISH)
06402.K3 BASE UNIT W/DRAWERS (FINISH)
06402.K4 BASE UNIT W/DRAWER & ADJ. SHELF(VES) (FINISH)
06402.L1 WALL UNIT (FINISH)
06402.L2 WALL UNIT W/ADJ. SHELF(VES) (FINISH)
06402.M1 3/4" PARTICLE BOARD SCREEN (FINISH)
06402.P0 COUNTERTOP
06402.P2 COUNTERTOP – P. LAM. ON 3/4" PLYWOOD
06402.X0 WORKBENCH (DEPTH)

06651 SOLID SURFACE FABRICATIONS

06651.A0 1/2" WHITE SOLID SURFACE WINDOW SILL
06651.B0 SOLID SURFACE COUNTER TOP
06651.C0 SOLID SURFACE BACKSPLASH

DIVISION 7 THERMAL AND MOISTURE PROTECTION

07190 WATER REPELLANTS

07190.A0 CLEAR WATER RESISTANT COATING

07210 BUILDING INSULATION

07210.A1 BATT INSULATION (R-VALUE)
07210.B0 RIGID INSULATION
07210.B1 RIGID INSULATION (R-VALUE)
07210.C0 RIGID INSULATION FOIL FACED W/VAPOR BARRIER
07210.C1 RIGID INSULATION (CONTINUOUSLY ADHERED TO CMU) W/FOIL FACED VAPOR BARRIER TOWARDS INTERIOR (R-VALUE)
07210.D0 VAPOR BARRIER
07210.E0 FOUNDATION WALL INSULATION (THICKNESS)

07410 MANUFACTURED ROOF PANELS

07410.A0 STANDING SEAM METAL ROOF
07410.A1 RAIN GUTTER W/CONTINUOUS HEAT TAPE
07410.A2 DOWNSPOUT W/CONTINUOUS HEAT TAPE
07410.B0 FASTENER
07410.B1 METAL REGLET
07410.C0 ROOFING FELT
07410.E0 BREAK METAL
07410.G0 FLASHING, FINISH TO MATCH LOUVER COLOR
07410.G1 FLASHING, FINISH TO MATCH ROOF COLOR
07410.G2 FLASHING, FINISH TO MATCH WINDOW
07410.G3 FLASHING AT WINDOW JAMB, HEAD AND SILL
07410.H0 METAL SIDING
07410.H1 METAL WALL PANEL
07410.H2 ALUMINUM CLAD WALL PANEL
07410.J2 JAMB TRIM
07410.K0 SEALANT
07410.L0 METAL FACIA
07410.M1 METAL SOFFIT
07410.M2 ICE & WATER SHEILD
07410.P1 PANEL TRIM
07410.P2 RAKE TRIM
07410.P3 GUTTER STRAPS
07410.Q1 CLIP
07410.R1 METAL EAVE CLOSURE
07410.S1 STANDING SEAM METAL ROOF RIDGE
07410.T1 STANDING SEAM METAL ROOF CANOPY

07729 ROOF SNOW GUARDS

07729.A0 STANDING SEAM METAL ROOF 2 PIPE SNOWGUARD SYSTEM

07901 JOINT SEALANTS

07901.A0 CONT. SEALANT
07901.B0 ASPHALT SATURATED FIBERBOARD
07901.C0 CONT. CAULK
07901.D0 JOINT FILLER
07901.G0 BACKER ROD
07901.H1 CONCRETE JOINT WATER PROOF SEALANT
07901.H2 JOINT SEALANT

DIVISION 8 DOORS AND WINDOWS

08111 STANDARD STEEL DOORS AND FRAMES

08111.A0 PRESSED METAL FRAME
08111.A1 GROUT-FILLED PRESSED METAL FRAME
08111.B0 HOLLOW METAL DOOR
08111.C0 JAMB ANCHOR

08360 SECTIONAL OVERHEAD DOORS

08360.A0 HEAVY DUTY OVERHEAD SECTIONAL DOOR
08360.B0 3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08360.C0 WEATHERSTRIPPING
08360.D0 DOOR GUIDE

08521 HORIZONTAL SLIDING VINYL (PVC) WINDOWS

08521.A0 VINYL WINDOW AS SCHEDULED
08521.B0 FIXED VINYL WINDOW
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL
08521.M0 SILL STARTER, SET IN SEALANT

08710 DOOR HARDWARE

08710.A0 THRESHOLD
08710.B0 DOOR SWEEP
08710.C0 WEATHERSTRIPPING

08800 GLAZING

08800.C0 WIRE GLASS
08800.G1 CLEAR INSULATING GLASS (SIZE)
08800.G2 TEMPERED GLASS
08800.G3 OPAGUE INSULATING GLASS

DIVISION 9 FINISHES

09255 GYPSUM BOARD ASSEMBLIES

09255.A0 GYPSUM BOARD
09255.A1 GYPSUM BOARD (THICKNESS)
09255.A2 WATER RESISTANT GYPSUM BOARD (THICKNESS)
09255.B2 TYPE 'X' GYPSUM BOARD (THICKNESS)
09255.C3 CEMENT BOARD (THICKNESS)
09255.H0 METAL STUD
09255.H1 METAL STUDS (SIZE, SPACING)
09255.J0 METAL RUNNER
09255.J1 METAL TOP TRACK
09255.K0 DOUBLE STUDS
09255.K1 DOUBLE STUDS (GAGE)
09255.L1 7/8" X 1-3/8" METAL ANGLE
09255.L2 2-1/2" X 2-1/2" METAL ANGLE
09255.M2 METAL CORNER BEAD (TYP)
09255.P0 Z-FURRING CHANNEL
09255.Q0 7/8" METAL FURRING CHANNEL
09255.R2 CHANNEL (SIZE, SPACING)
09255.S1 8 GA. WIRE HANGERS (SPACING)
09255.S2 18 GA. WIRE TIES
09255.S3 18 GA. METAL MOUNTING STRIPS
09255.S4 BRACING WIRE
09255.S5 VERTICAL WIRE HANGER (SIZE)
09255.U1 SUSPENDED CEILING SYSTEM
09255.U2 CROSS CHANNEL
09255.U3 3/4" CONDUIT COMPRESSION BRACE
09255.V0 EDGE TRIM (TYP)
09255.V2 LC-BEAD (PREFERRED USG 200-A TRIM)
09255.V4 VINYL TRIM

09300 TILE

09300.A1 FLOOR TILE – SEE FINISH SCHED.
09300.B1 WALL TILE – SEE FINISH SCHED.
09300.C0 TILE BASE
09300.D1 BULLNOSE TRIM UNIT
09300.E1 1/2" x 6" TILE TRIM PIECE – SEE FINISH SCHED.
09300.G1 MORTAR BED
09300.G4 WATERPROOF MEMBRANE

09511 ACOUSTICAL PANEL CEILINGS

09511.A0 LAY-IN ACOUSTICAL CEILING SYSTEM
09511.A1 HEAVY DUTY "T" BAR GRID SYSTEM
09511.A2 CEILING SUSPENSION SYSTEM – MAIN RUNNER
09511.A3 CEILING SUSPENSION SYSTEM – CROSS RUNNER
09511.B1 VERTICAL WIRE HANGER (SIZE)
09511.B2 BRACING WIRE (SIZE)
09511.C1 COMPRESSION STRUTS
09511.D1 METAL ANGLE EDGE
09511.E1 LAY IN ACOUSTICAL CEILING PANEL
09511.F1 SPREADER BAR REQUIRED TO KEEP PERIMETER COMPONENTS FROM SPREADING APART

09660 RESILIENT TILE FLOORING

09660.A1 VINYL COMPOSITION TILE
09660.B1 VINYL TRANSITION STRIP

09678 RESILIENT WALL BASE AND ACCESSORIES

09678.E1 RUBBER BASE (SIZE)

09900 PAINTING

09900.A1 PAINT – SEE FINISH SCHED.

DIVISION 10 SPECIALTIES

10100 VISUAL DISPLAY BOARDS

10100.C0 MARKER BOARD (L X H)

10155 TOILET COMPARTMENTS

10155.A0 TOILET STALL PARTITION
10155.B0 URINAL STALL PARTITION

10425 SIGNS

10425.A0 ROOM SIGNAGE
10425.A1 OIL SIGNAGE
10425.B1 WELDING SIGNAGE
10425.C1 ACCESSIBLE SIGNAGE
10425.D1 ACCESSIBLE/UNISEX RESTROOM SIGNAGE

10500 METAL LOCKERS AND STORAGE CABINETS

10500.A0 METAL LOCKERS (WIDTH)
10500.B0 METAL STORAGE CABINETS

10522 FIRE EXTINGUISHERS AND ACCESSORIES

10522.A0 FIRE EXTINGUISHER

10800 TOILET AND BATH ACCESSORIES

10800.B0 PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.B1 SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.C0 TOILET TISSUE DISPENSER
10800.C1 RECESSED TOILET TISSUE DISPENSER/SAN. NAP. DISPOSAL
10800.D0 MOP RACK
10800.E0 GRAB BAR
10800.E1 GRAB BAR (SHOWER)
10800.F0 ROBE HOOK
10800.F1 DOUBLE PRONG ROBE HOOK
10800.H0 SOAP DISPENSER
10800.H1 SOAP DISH
10800.P1 SHOWER CURTAIN ROD
10800.P2 SHOWER CURTAIN
10800.R1 FRAMED MIRROR (SIZE)
10800.T1 FOLDING SHOWER SEAT
10800.T0 METAL SHELF (SIZE)

DIVISION 12 FURNISHINGS

12511 HORIZONTAL LOUVER BLINDS

12511.A0 HORIZONTAL LOUVER BLINDS

DIVISION 14 CONVEYING SYSTEMS

14620 TROLLEY HOIST

14620.A0 TROLLEY HOIST (SIZE)

DIVISION 15 EQUIPMENT

15000 MECHANICAL

15000.A0 GAS METER – SEE MECHANICAL
15050.A1 MECH. PENETRATIONS
15194.A0 GAS METER – SEE PLUMBING DRAWINGS
15250.A1 PIPE INSULATION AT ALL EXPOSED PIPE
15410.A0 URINAL
15410.A1 URINAL, ACCESSIBLE
15410.B0 SINK FAUCET
15410.B1 SINK FAUCET W/ADA LEVER HANDLES
15410.C0 UTILITY SINK
15410.D1 FLOOR SINK
15410.E0 TRENCH DRAIN
15410.E2 FLOOR DRAIN
15410.F0 TOILET
15411.A0 PRV STATION – SEE PLUMBING
15412.A0 EMERGENCY SHOWER & EYE WASH
15452.A1 DRINKING FOUNTAIN
15486.A1 FUEL FIRED WATER HEATER
15490.A0 WASTE OIL PUMP
15490.B0 WASTE OIL CARTS
15490.C0 WASTE OIL PIT
15490.D0 280 GAL DOUBLE WALL WASTE OIL TANK – C.F.C.I.
15491.A0 AIR COMPRESSOR – O.F.C.I.
15491.B0 OVERHEAD LUBE REEL
15491.C0 OVERHEAD HOSE REEL
15600.A0 PROPANE GAS RADIANT HEATER SYSTEM
15611.A1 PROPANE GAS FIRED FURNACE
15611.B1 UNIT HEATER
15670.A1 CONDENSING UNIT – SEE MECHANICAL
15838.A0 EXHAUST FAN – SEE MECHANICAL
15838.A1 EXHAUST FAN VENT – SEE MECHANICAL
15838.B0 VENT – SEE MECHANICAL
15861.A1 MECHANICAL DUCTWORK – SEE MECHANICAL
15887.A1 LOUVER WITH BIRD SCREEN – SEE MECHANICAL
15887.B1 INTAKE GRAVITY HOOD – SEE MECHANICAL

DIVISION 16 ELECTRICAL

16000 ELECTRICAL

16128.A0 LOW VOLTAGE DE-ICING SNOW MELTING CABLE SYSTEM
16128.B0 LOW VOLTAGE DE-ICING CABLING BOARD W/PRE CUT GROOVES
16128.C0 LOW VOLTAGE DE-ICING CABLE
16128.D0 LOW VOLTAGE DE-ICING CABLE PROTECTOR
16128.E0 ATTACHMENT AS PER MANUFACTURER RECOMENDATIONS
16210.A1 ELECTRICAL METER – SEE ELECTRICAL
16411.A1 EMERGENCY DISCONNECT – SEE ELECTRICAL
16442.A0 ELECTRICAL PANEL
16510.A0 INTERIOR LIGHTS
16510.B0 WALL MOUNTED INTERIOR LIGHTS
16520.B1 EXTERIOR WALL MOUNTED LIGHTS
16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS
16520.B3 EXTERIOR FLOOD LIGHTS – MOUNT TO STEEL COLUMN
16520.C1 EXTERIOR FLOOD LIGHTS

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UDOT CONNECTING COMMUNITIES
STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL

RALPH M. STANISLAW
06-310818-0301
STATE OF UTAH
LICENSED ARCHITECT

ISSUE		
	2-09	CONSTRUCTION DOCUMENTS
	1-20-09	90% REVIEW SUBMITTAL
MARK	DATE	DESCRIPTION

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	FEBRUARY, 2009

SHEET TITLE

MASTER KEYNOTE LIST

G002

SPECIAL INSPECTION AND TESTING (IBC 1704)

Indicate required Special Inspections for project by checking the appropriate boxes:

FABRICATORS (IBC1704.2)

Approved Fabricator	Fabricator's Name:
Unapproved Fabricator	Fabricator's Name:

	In-plant inspections		
	Steel Constructio	Welding	Details

STEEL (IBC1704.3)

Item			Reference/Comments
High-Strength Bolting (1704.3.3	☐ Continuous	☐ Periodic	
WELDING (1704.3.1)			
Details (1704.3.2)			
Complete & partial penetration groove welds	☒ Continuous	☐ Periodic	
Multi-pass fillet welds	☒ Continuous	☐ Periodic	
Single-pass fillet welds > 5/16"	☒ Continuous	☐ Periodic	
Single-pass fillet welds ≤ 5/16"	☐ Continuous	☒ Periodic	
Floor & roof deck welds	☐ Continuous	☒ Periodic	
REINFORCEMENT STEEL	☒ Continuous		
Verification of weldability	☐ Continuous	☐ Periodic	
Shear wall and shear reinforcement	☒ Continuous	☐ Periodic	
Other reinforcement	☐ Continuous	☐ Periodic	
Steel frame joint details	☐ Continuous	☐ Periodic	

CONCRETE CONSTRUCTION (IBC1704.4)

Item			Reference/Comments
Materials (1704.4.1)	☒ Continuous	☐ Periodic	
Steel placement	☒ Continuous	☐ Periodic	
Steel welding	☐ Continuous	☒ Periodic	
Bolts prior & during placement	☒ Continuous	☐ Periodic	
Use of required design mix	☒ Continuous	☐ Periodic	
Concrete sampling for strength test, slump, air content, and temperature of	☒ Continuous	☐ Periodic	
Concrete & shotcrete placeme	☒ Continuous	☐ Periodic	
Curing temperature & techniques	☒ Continuous	☐ Periodic	
Pre-stressed concrete	☐ Continuous	☐ Periodic	
Pre-cast concrete	☐ Continuous	☐ Periodic	
Post-tensioned concrete	☐ Continuous	☐ Periodic	
Form work	☒ Continuous	☐ Periodic	

MASONRY CONSTRUCTION (IBC1704.5)

Item			Reference/Comments
As masonry construction begins:			
Site-prepared mortar	☐ Continuous	☒ Periodic	
Construction of mortar joints	☐ Continuous	☒ Periodic	
Location of reinforcement, connectors, pre-stressing tendons and anchorages	☐ Continuous	☒ Periodic	
Pre-stressing technique	☐ Continuous	☐ Periodic	
Grade and size of pre-stressing tendons and	☐ Continuous	☐ Periodic	
Inspection program verify:			
Size and location of structural elements	☐ Continuous	☒ Periodic	
Type, size and location of anchors	☐ Continuous	☒ Periodic	
Size, grade and type of reinforcement	☐ Continuous	☒ Periodic	
Welding of reinforcement	☐ Continuous	☒ Periodic	
Cold and hot weather protection	☐ Continuous	☒ Periodic	
Application and measurement of pre-	☐ Continuous	☐ Periodic	
Prior to grouting verify:			
Clean grout space	☐ Continuous	☒ Periodic	
Placement of reinforcement	☐ Continuous	☒ Periodic	
Grout mix	☒ Continuous	☐ Periodic	
Mortar joints	☐ Continuous	☒ Periodic	
Grout Placement	☒ Continuous	☐ Periodic	
Grout and mortar specimens and prisms	☐ Continuous	☒ Periodic	
Construction and submittal compliance verification	☐ Continuous	☒ Periodic	
Empirical masonry - Cat. I-III (1708.1.1)	☐ Continuous	☐ Periodic	
Empirical masonry - Cat. IV (1708.1.1)	☐ Continuous	☐ Periodic	
Engineered masonry - Cat. I-III (1708.1.1)	☐ Continuous	☒ Periodic	
Engineered masonry - Cat. IV (1708.1.1)	☐ Continuous	☐ Periodic	
Engineering and pre-stressing steel (1708.3)	☐ Continuous	☐ Periodic	
Structural steel (1708.4)	☐ Continuous	☒ Periodic	
Qualification of mechanical & electrical equipment (1708.5)	☐ Continuous	☐ Periodic	
Seismically isolated structures (1708.6)	☐ Continuous	☐ Periodic	
Testing for seismic resistance	☐ Continuous	☐ Periodic	

WOOD CONSTRUCTION (IBC1704.6)

Item			Reference/Comments
Prefabricated elements and assembly	☐ Continuous	☐ Periodic	

SOILS CONSTRUCTION (IBC1704.7)

Item			Reference/Comments
Site Preparation	☐ Continuous	☒ Periodic	
Structural fill lift thickness	☐ Continuous	☒ Periodic	
Structural fill soil densities	☐ Continuous	☒ Periodic	
Backfill soils materials	☐ Continuous	☒ Periodic	
Backfill soil densities	☐ Continuous	☒ Periodic	
Fill material under sidewalks and parking	☐ Continuous	☒ Periodic	
Fill soil densities under sidewalks and parking	☐ Continuous	☒ Periodic	

PILE FOUNDATIONS (IBC1704.8)

Item			Reference/Comments
Observe driving operation	☐ Continuous	☐ Periodic	
Verify placement and	☐ Continuous	☐ Periodic	

PIER FOUNDATIONS (IBC1704.9)

Item			Reference/Comments
Observe drilling operation	☐ Continuous	☐ Periodic	
Verify placement and	☐ Continuous	☐ Periodic	

SPRAYED FIRE-RESISTANT MATERIALS (IBC1704.10)

Item			Reference/Comments
Structural member surface	☐ Continuous	☐ Periodic	
Material application	☐ Continuous	☐ Periodic	
Material thickness	☐ Continuous	☐ Periodic	
Material Density	☐ Continuous	☐ Periodic	
Bonding Strength	☐ Continuous	☐ Periodic	

MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC1704.11)

Item			Reference/Comments
Material and installation	☐ Continuous	☐ Periodic	

EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) (IBC1704.12)

Item			Reference/Comments
Material and installation	☐ Continuous	☐ Periodic	

ALTERNATIVE CONSTRUCTION METHODS AND MATERIALS (IBC1704.13)

Item			Reference/Comments
Material and installation	☐ Continuous	☐ Periodic	

EPOXY (IBC1704.13)

Item			Reference/Comments
Material and installation	☐ Continuous	☐ Periodic	

SMOKE CONTROL (IBC1704.14)

Item			Reference/Comments
Material	☐ Continuous	☐ Periodic	
Installation	☐ Continuous	☐ Periodic	

Special inspection for seismic resistance (IBC1707)

Item			Reference/Comments
Structural Steel (1707.2)	☐ Continuous	☐ Periodic	
Structural Wood (1707.3)	☐ Continuous	☐ Periodic	
Cold-formed steel framing (1707.4)	☐ Continuous	☐ Periodic	
Pier foundations (1707.5)	☐ Continuous	☐ Periodic	
Storage racks and access floors (1707.6)	☐ Continuous	☐ Periodic	
Architectural components (1707.7)	☐ Continuous	☐ Periodic	
Mechanical & electrical items (1707.8)	☐ Continuous	☐ Periodic	
Designated systems verification (1707.9)	☐ Continuous	☐ Periodic	
Seismic isolation systems (1707.10)	☐ Continuous	☐ Periodic	

Inspection of seismic resistance is not required per IBC 1705.3

OTHER

Item			Reference/Comments
	☐ Continuous	☐ Periodic	
	☐ Continuous	☐ Periodic	

Special Inspectors Shall:

- Be approved by the Building Official prior to performing any duties;
- Provide proof of licensure as a special inspector by the State of Utah for each type of inspection;
- Inspection reports are to meet requirements of IBC 1704.1.2 and DFCM standards;
- Inspection reports are to be submitted to the code consultant, architect, DFCM project manager, and the State of Utah Building Official within 48 hrs. of inspections;
- A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in

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UDOT CONNECTING COMMUNITIES

STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
06-312618-0301
LICENSED ARCHITECT

ISSUE

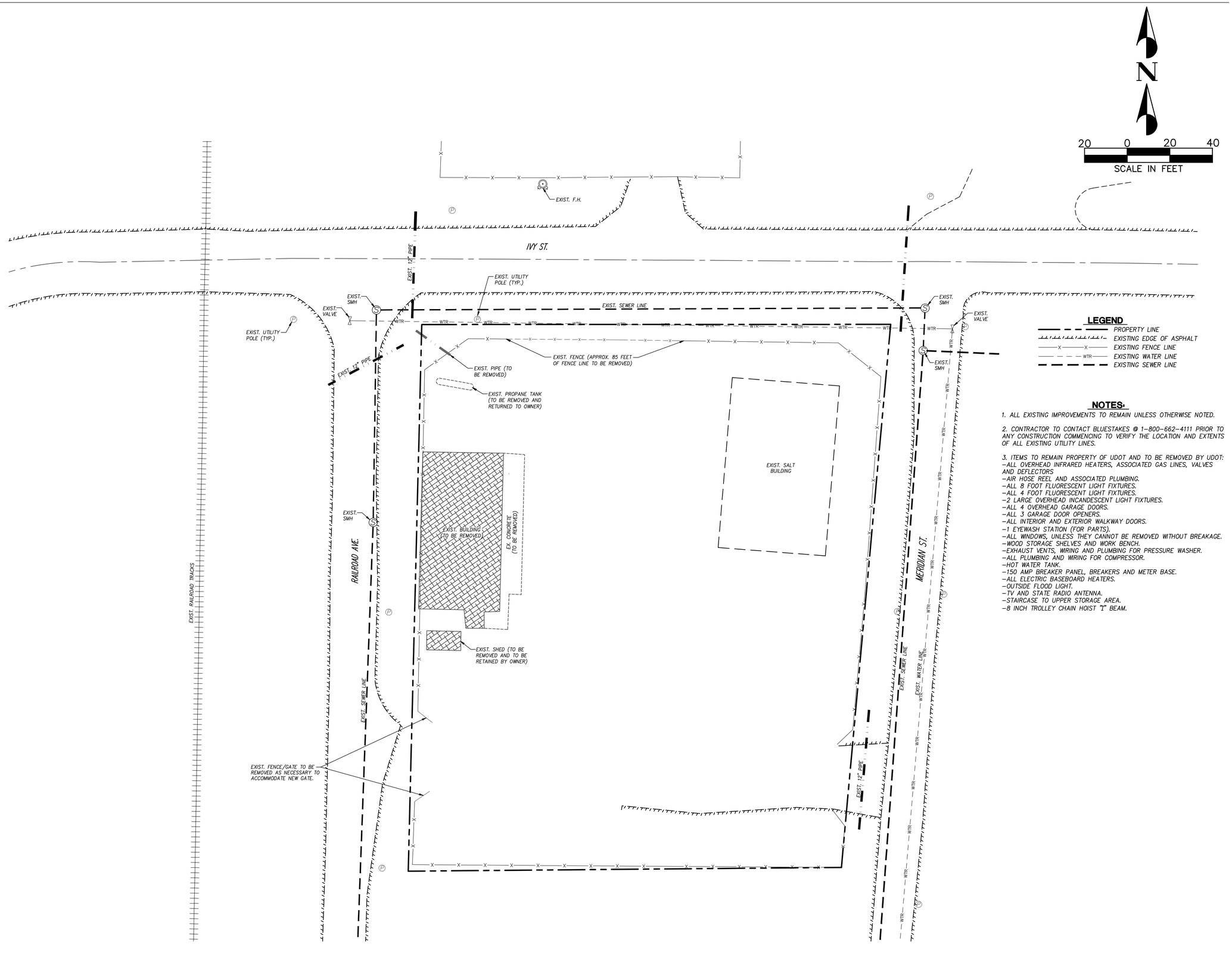
MARK	DATE	DESCRIPTION
	2-09	CONSTRUCTION DOCUMENTS
	1-20-09	90% REVIEW SUBMITTAL

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	
DATE:	FEBRUARY, 2009

SHEET TITLE

SPECIAL INSPECTION AND TESTING FORM

G003



LEGEND

- PROPERTY LINE
- EXISTING EDGE OF ASPHALT
- EXISTING FENCE LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE

NOTES:

1. ALL EXISTING IMPROVEMENTS TO REMAIN UNLESS OTHERWISE NOTED.

2. CONTRACTOR TO CONTACT BLUESTAKES @ 1-800-662-4111 PRIOR TO ANY CONSTRUCTION COMMENCING TO VERIFY THE LOCATION AND EXTENTS OF ALL EXISTING UTILITY LINES.

3. ITEMS TO REMAIN PROPERTY OF UDOT AND TO BE REMOVED BY UDOT:
- ALL OVERHEAD INFRARED HEATERS, ASSOCIATED GAS LINES, VALVES AND DEFLECTORS
- AIR HOSE REEL AND ASSOCIATED PLUMBING.
- ALL 8 FOOT FLUORESCENT LIGHT FIXTURES.
- ALL 4 FOOT FLUORESCENT LIGHT FIXTURES.
- 2 LARGE OVERHEAD INCANDESCENT LIGHT FIXTURES.
- ALL 4 OVERHEAD GARAGE DOORS.
- ALL 3 GARAGE DOOR OPENERS.
- ALL INTERIOR AND EXTERIOR WALKWAY DOORS.
- 1 EYEWASH STATION (FOR PARTS).
- ALL WINDOWS, UNLESS THEY CANNOT BE REMOVED WITHOUT BREAKAGE.
- WOOD STORAGE SHELVES AND WORK BENCH.
- EXHAUST VENTS, WIRING AND PLUMBING FOR PRESSURE WASHER.
- ALL PLUMBING AND WIRING FOR COMPRESSOR.
- HOT WATER TANK.
- 150 AMP BREAKER PANEL, BREAKERS AND METER BASE.
- ALL ELECTRIC BASEBOARD HEATERS.
- OUTSIDE FLOOD LIGHT.
- TV AND STATE RADIO ANTENNA.
- STAIRCASE TO UPPER STORAGE AREA.
- 8 INCH TROLLEY CHAIN HOIST "I" BEAM.

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SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PEPG ENGINEERING, L.L.C.
8805 S. SANDY PARKWAY • SANDY, UT 84070
PHONE: (801) 562-2521 • FAX: (801) 562-2551

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 272207
DARRIN R. SMITH
3-13-2009
STATE OF UTAH

ISSUE

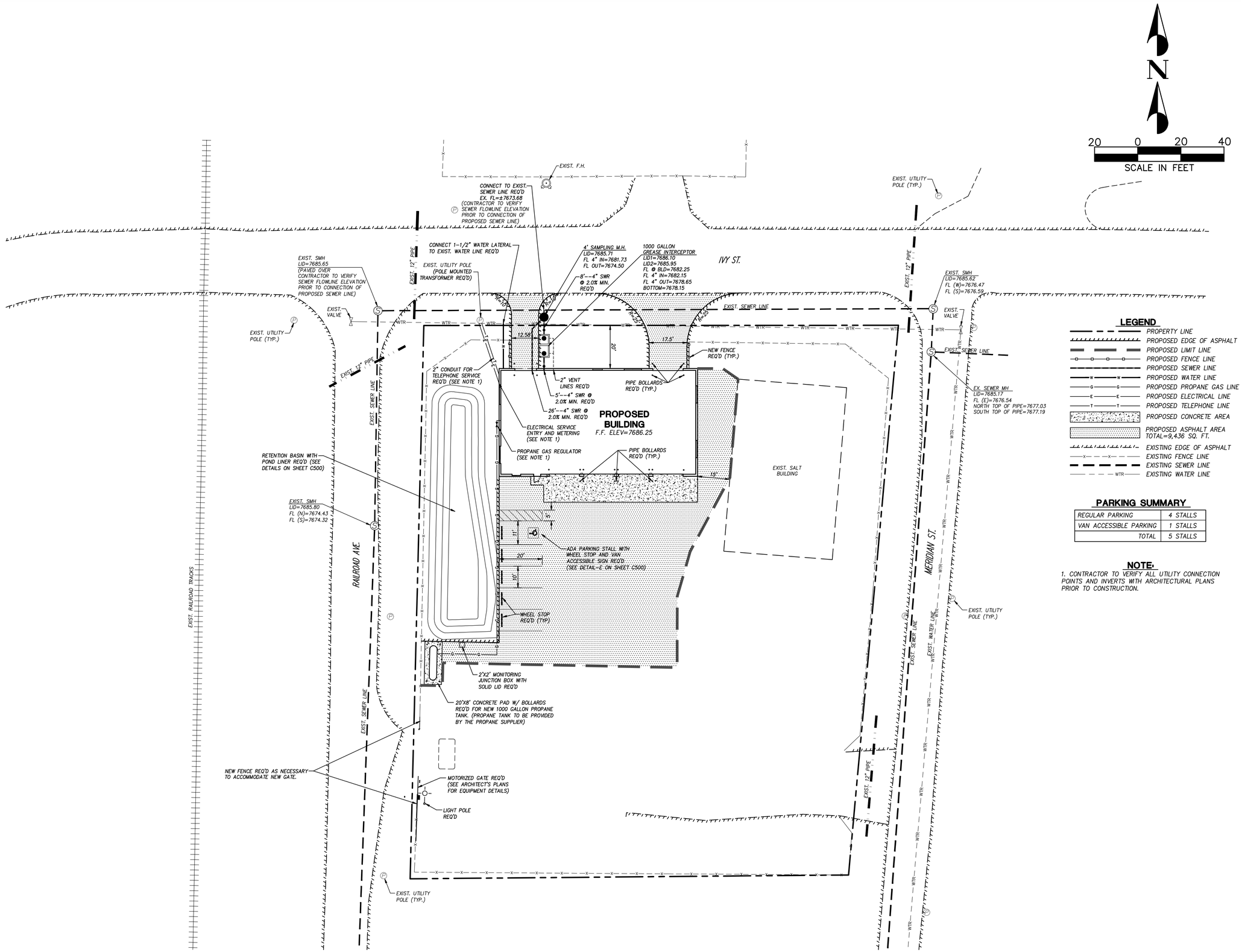
MARK	DATE	DESCRIPTION
	2-09	CONSTRUCTION DOCUMENTS
	1-20-09	90% REVIEW SUBMITTAL

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
PEPG PROJECT NO:	6600.0818
DRAWN BY:	BCB
CHECKED BY:	DRS
SCALE:	1"=20'
DATE:	MARCH, 2009

SHEET TITLE

DEMOLITION PLAN

C100



LEGEND

- PROPERTY LINE
- PROPOSED EDGE OF ASPHALT
- PROPOSED LIMIT LINE
- PROPOSED FENCE LINE
- PROPOSED SEWER LINE
- PROPOSED WATER LINE
- PROPOSED PROPANE GAS LINE
- PROPOSED ELECTRICAL LINE
- PROPOSED TELEPHONE LINE
- PROPOSED CONCRETE AREA
- PROPOSED ASPHALT AREA TOTAL=9,436 SQ. FT.
- EXISTING EDGE OF ASPHALT
- EXISTING FENCE LINE
- EXISTING SEWER LINE
- EXISTING WATER LINE

PARKING SUMMARY

REGULAR PARKING	4 STALLS
VAN ACCESSIBLE PARKING	1 STALLS
TOTAL	5 STALLS

NOTE:

1. CONTRACTOR TO VERIFY ALL UTILITY CONNECTION POINTS AND INVERTS WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
160 EAST HWY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PEPG ENGINEERING, L.L.C.
8805 S. SANDY PARKWAY • SANDY, UT 84070
PHONE: (801) 562-2521 • FAX: (801) 562-2551

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 177207
DARRIN R. SMITH
3-13-2009
STATE OF UTAH

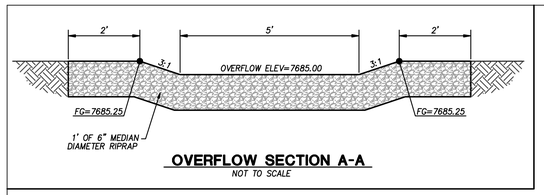
ISSUE		
	2-09	CONSTRUCTION DOCUMENTS
	1-20-09	90% REVIEW SUBMITTAL
MARK	DATE	DESCRIPTION

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
PEPG PROJECT NO:	6600.0818
DRAWN BY:	BCB
CHECKED BY:	DRS
SCALE:	1"=20'
DATE:	MARCH, 2009

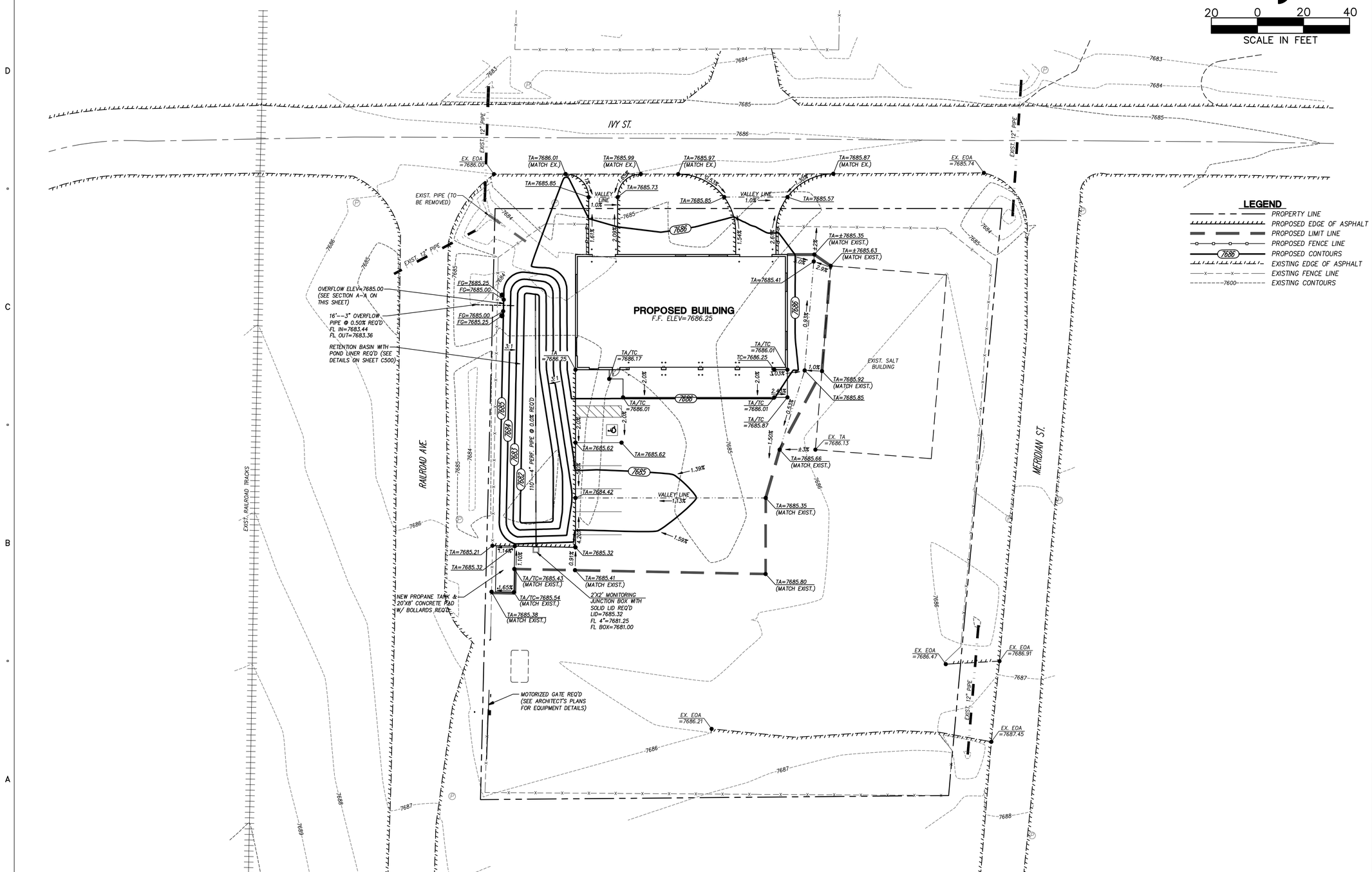
SHEET TITLE

SITE & UTILITY PLAN

C200



OVERFLOW SECTION A-A
NOT TO SCALE



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160 EAST HWY 96
SCOFIELD, UTAH 84526

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ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

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8805 S. SANDY PARKWAY • SANDY, UT 84070
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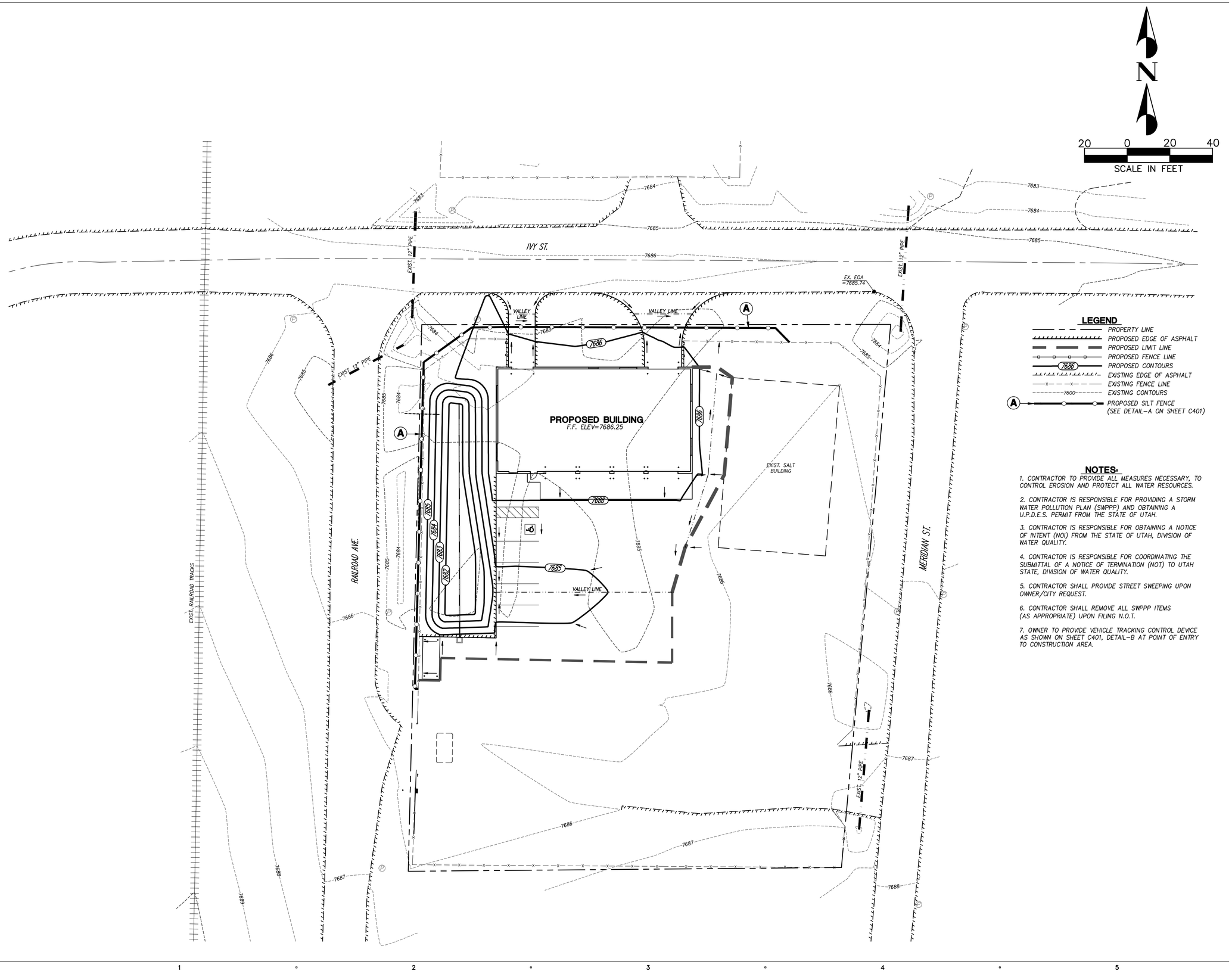
DRAWN BY:	BCB
CHECKED BY:	DRS
SCALE:	1"=20'
DATE:	MARCH, 2009

SHEET TITLE

GRADING PLAN

C300



NOTES:

1. CONTRACTOR TO PROVIDE ALL MEASURES NECESSARY, TO CONTROL EROSION AND PROTECT ALL WATER RESOURCES.
2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A STORM WATER POLLUTION PLAN (SWPPP) AND OBTAINING A U.P.D.E.S. PERMIT FROM THE STATE OF UTAH.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A NOTICE OF INTENT (NOI) FROM THE STATE OF UTAH, DIVISION OF WATER QUALITY.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE SUBMITTAL OF A NOTICE OF TERMINATION (NOT) TO UTAH STATE, DIVISION OF WATER QUALITY.
5. CONTRACTOR SHALL PROVIDE STREET SWEEPING UPON OWNER/CITY REQUEST.
6. CONTRACTOR SHALL REMOVE ALL SWPPP ITEMS (AS APPROPRIATE) UPON FILING N.O.T.
7. OWNER TO PROVIDE VEHICLE TRACKING CONTROL DEVICE AS SHOWN ON SHEET C401, DETAIL-B AT POINT OF ENTRY TO CONSTRUCTION AREA.

CLIENT

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SCOFIELD, UTAH 84526

DESIGNER

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255 Crossroad Square
Salt Lake City, UT 84115
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F:(801) 961-7373

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PEPG ENGINEERING, L.L.C.
8805 S. SANDY PARKWAY • SANDY, UT 84070
PHONE: (801) 562-2521 • FAX: (801) 562-2551

PROFESSIONAL SEAL

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No. 272207
DARRIN R. SMITH
3-13-2009
STATE OF UTAH

ISSUE

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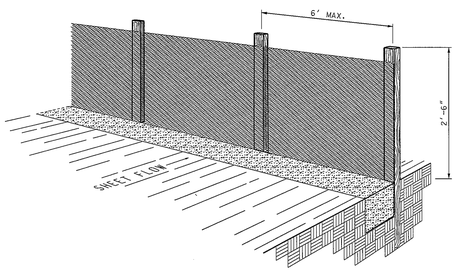
SCALE:	1"=20'
DATE:	MARCH, 2009

SHEET TITLE

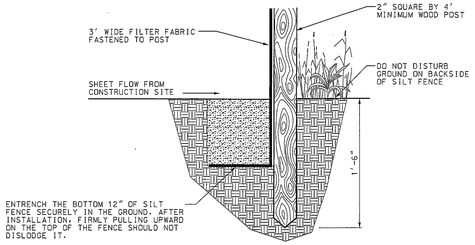
EROSION CONTROL PLAN

C400

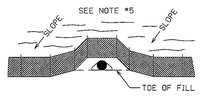
SILT FENCE



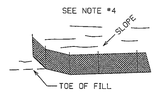
PERSPECTIVE VIEW



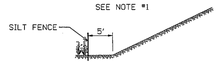
SECTION



AROUND A PIPE OUTLET



AT END OF SILT FENCE



AT TOE OF FILL SLOPE

SPLICES (TOP VIEW)

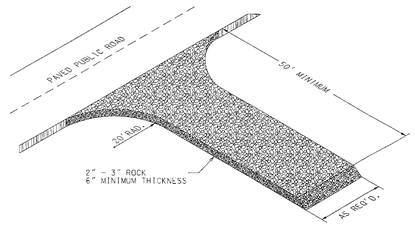
SILT FENCE INSTALLATIONS

NOTES FOR SILT FENCE:

1. WHERE PERMITTED, POSITION THE SILT FENCE 5' BEYOND THE TOE OF SLOPE.
2. TO AVOID CREATING LOW POINTS ALONG THE SILT FENCE, ALIGN THE FENCE ALONG THE CONTOUR AS MUCH AS POSSIBLE. WHERE EXCESSIVE RUNOFF WILL ACCUMULATE AT A LOW POINT, PROVIDE AN OPENING IN THE FENCE AND INSTALL A SEDIMENT TRAP.
3. WHEN EXCAVATING THE TRENCH, USE MACHINERY THAT WILL MINIMIZE DISTURBANCE.
4. TO PREVENT RUNOFF FROM FLOWING AROUND THE ENDS OF THE SILT FENCE, RUN THE ENDS OF THE FENCE UP SLOPE.
5. DO NOT PLACE SILT FENCE ACROSS POTENTIAL CONCENTRATED FLOWS (e.g., PIPE OUTLETS, DRAINAGE CHANNELS, CUT DITCHES).
6. AVOID USING SPLICES ALONG THE FENCE AS MUCH AS POSSIBLE. IF A SPLICE IS NECESSARY, BEFORE POUNDING IN THE END POSTS, OVERLAP THE END POSTS AND TWIST 180 DEGREES.
7. MAINTAIN A PROPERLY FUNCTIONING SILT FENCE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL DISTURBED AREAS HAVE BEEN VEGETATED.
8. WHEN A STORM EVENT DEPOSITS SEDIMENT BEHIND THE FENCE, REMOVE THE SEDIMENT AND PLACE IT IN A STABLE AREA APPROVED BY THE ENGINEER.
9. IN AREAS THAT HAVE BEEN SEEDED AND MULCHED, REMOVE SILT FENCE UNLESS THEY ARE PROTECTING A WETLAND OR WATER BODY.

TEMPORARY EROSION CONTROL
SILT FENCE (A)
SEE UDOT STANDARD DWG. EN 2
NOT TO SCALE

STABILIZED CONSTRUCTION ENTRANCE



NOTES FOR STABILIZED CONSTRUCTION ENTRANCE:

1. PLACE STABILIZED CONSTRUCTION ENTRANCES AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. MAINTAIN A PROPERLY FUNCTIONING CONSTRUCTION ENTRANCE THROUGHOUT CONSTRUCTION OR UNTIL DISTURBED AREAS HAVE BEEN PAVED.
3. DO NOT ALLOW VEHICLES LEAVING THE CONSTRUCTION SITE TO TRACK MUD ONTO PAVED ROADS.

TEMPORARY EROSION CONTROL
STABILIZED CONSTRUCTION ENTRANCE (B)
SEE UDOT STANDARD DWG. EN 6
NOT TO SCALE

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
160 EAST HWY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PEPG ENGINEERING, L.L.C.
8805 S. SANDY PARKWAY • SANDY, UT 84070
PH: (801) 562-2521 • FAX: (801) 562-2551

PROFESSIONAL SEAL

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3-11-2009
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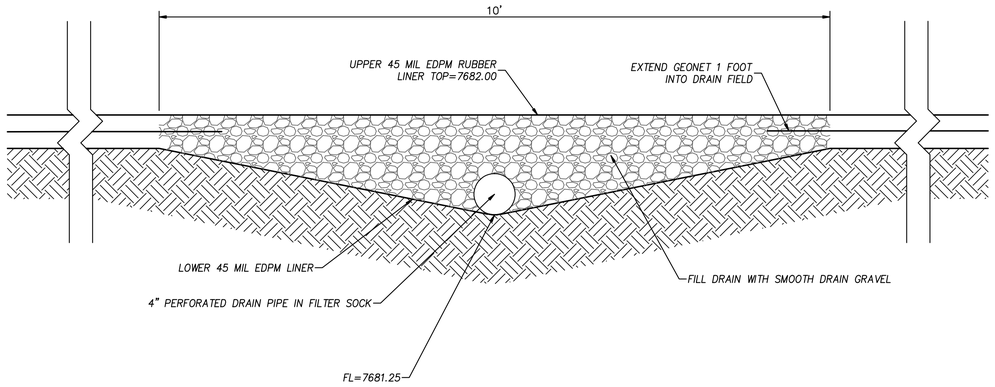
DRAWN BY:	BCB
CHECKED BY:	DRS
SCALE:	NOT TO SCALE
DATE:	MARCH, 2009

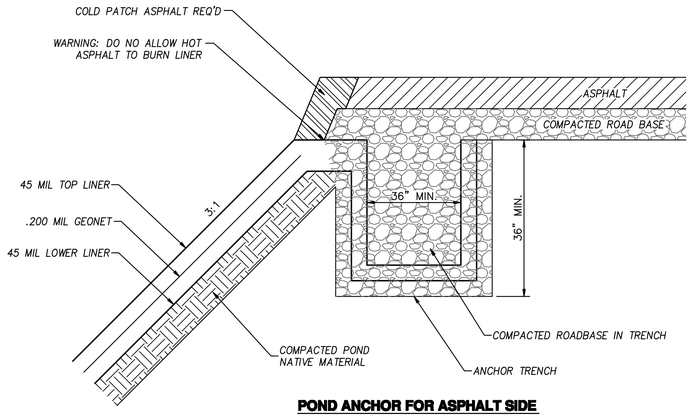
SHEET TITLE

EROSION CONTROL DETAILS

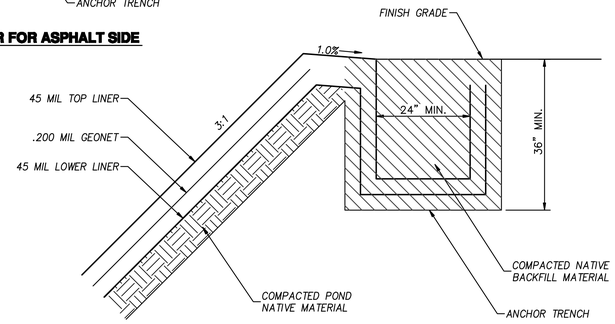
C401



DETAIL-A
LINER PERFORATED PIPE DRAIN FIELD DETAIL
NOT TO SCALE

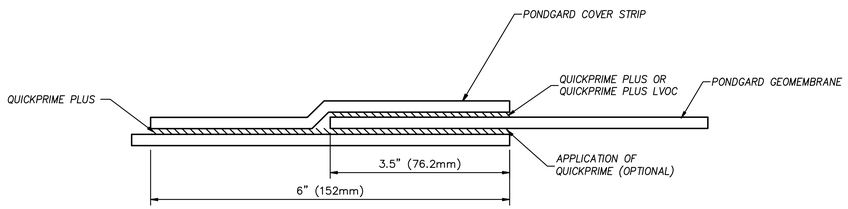


POND ANCHOR FOR ASPHALT SIDE



POND ANCHOR FOR NON-ASPHALT SIDE

DETAIL-B
POND ANCHOR DETAIL
NOT TO SCALE



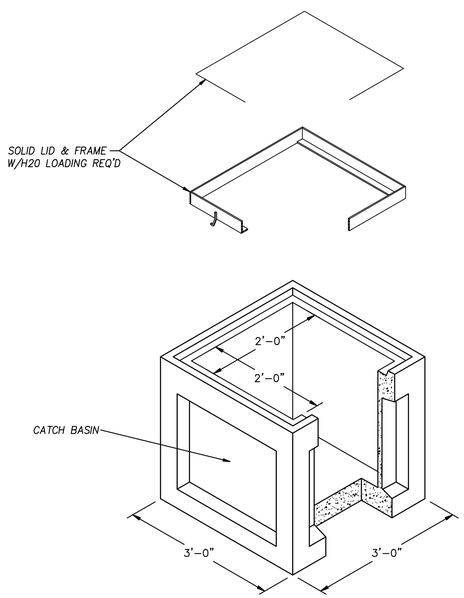
1. CLEAN ALL PONDGARD GEOMEMBRANE SURFACES AS REQUIRED BY FIRESTONE SPECIFICATIONS.

2. TAKE EXTRA CARE TO CLEAN FACTORY SPLICES AND OTHER AREAS WHERE EXCESS DUSTING AGENT MAY HAVE ACCUMULATED.

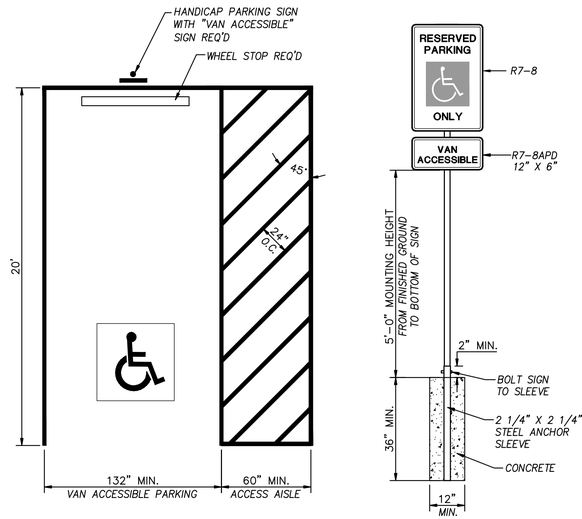
3. ADDITIONAL SEAMING REQUIREMENTS ARE NECESSARY WHEN .090 MIL GEOMEMBRANE IS USED. (CONTACT FIRESTONE SPECIALTY PRODUCTS DEPARTMENT)

*GEOMEMBRANE AND LINER ARE INTERCHANGEABLE TERMS.

DETAIL-C
6" COVER STRIP SEAM DETAIL
NOT TO SCALE



DETAIL-D
2'X2' MONITORING JUNCTION BOX
NOT TO SCALE



DETAIL-E
VAN ACCESSIBLE PARKING DETAIL
NOT TO SCALE

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
160 EAST HWY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PEPG ENGINEERING, L.L.C.
8805 S. SANDY PARKWAY • SANDY, UT 84070
PHONE: (801) 562-2521 • FAX: (801) 562-2551

PROFESSIONAL SEAL

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DARRIN R. SMITH
3-11-2009
STATE OF UTAH

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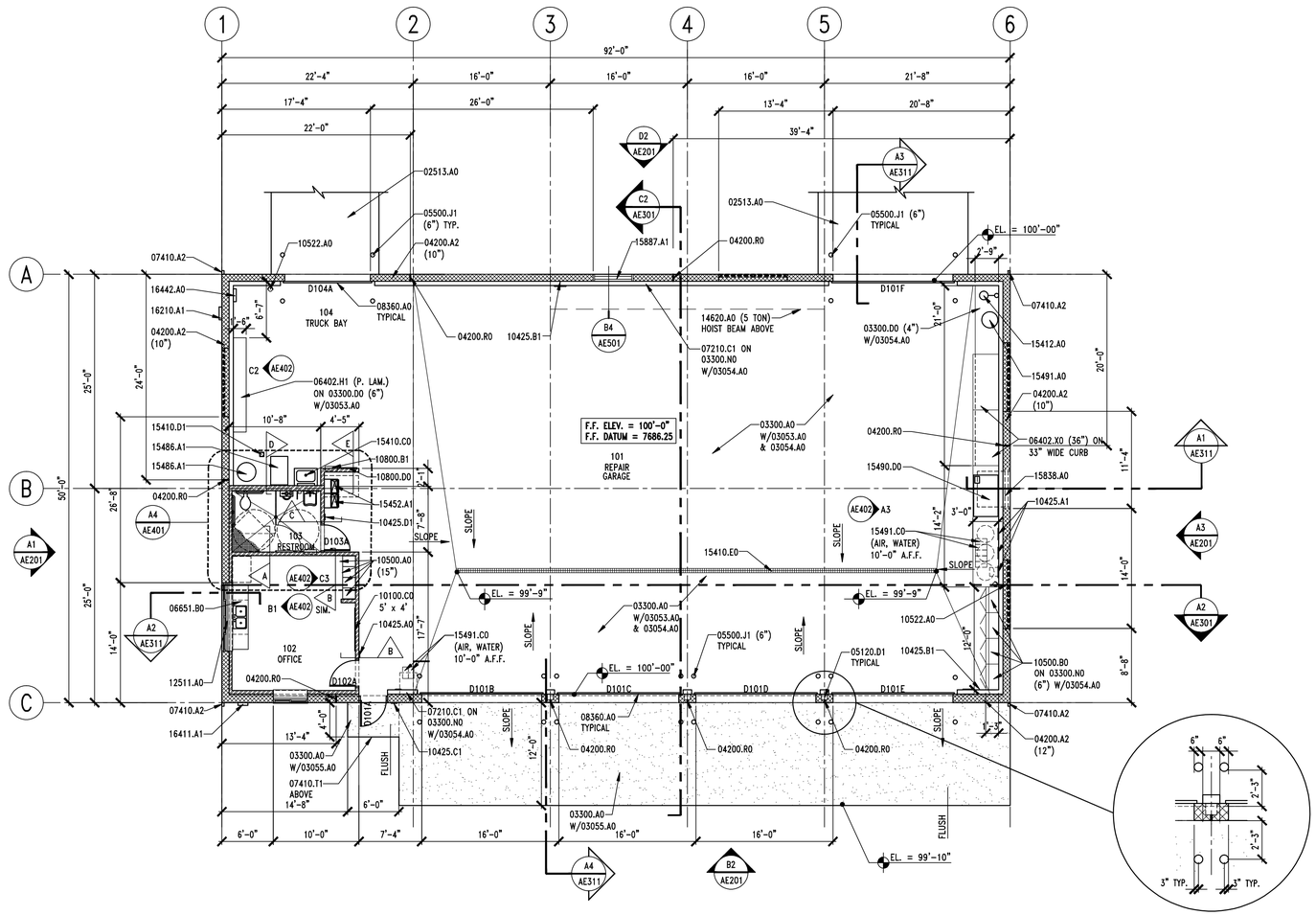
MARK	DATE	DESCRIPTION

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	BCB
CHECKED BY:	DRS
SCALE:	N.T.S.
DATE:	MARCH, 2009

SHEET TITLE

TYPICAL SECTIONS & DETAILS

C500



A1 | FLOOR PLAN

AE101 | REF. | SCALE: 1/8" = 1'-0"

KEYNOTES

02513.A0 CONCRET ASPHALT PAVING
03053.A0 CONCRETE WATER PROOFING ADMIXTURE
03054.A0 OLIOPHOBIC TOPICAL SEALER
03055.A0 SALT AND WATER BARRIER
03300.A0 CONCRETE – SLAB ON GRADE
03300.D0 CONCRETE PAD
03300.N0 CONCRETE CURB

04200.A2 CMU (SIZE)
04200.R0 CONTROL JOINT

05120.D1 TUBE STEEL COLUMN – SEE STRUCTURAL
05500.J1 PIPE BOLLARD (DIAMETER) GALVANIZED & PAINTED

06402.H1 ADJUSTABLE SHELVES (FINISH)
06402.X0 WORKBENCH (DEPTH)
06651.B0 SOLID SURFACE COUNTER TOP

07210.C1 RIGID INSULATION (CONTINUOUSLY ADHERED TO CMU) W/FOIL FACED VAPOR BARRIER TOWARDS INTERIOR (R-VALUE)
07410.A2 DOWNSPOUT W/CONTINUOUS HEAT TAPE
07410.T1 STANDING SEAM METAL CANOPY

08360.A0 HEAVY DUTY OVERHEAD SECTIONAL DOOR

10100.C0 MARKER BOARD (L X H)
10425.A0 ROOM SIGNAGE
10425.A1 OIL SIGNAGE
10425.B1 WELDING SIGNAGE
10425.C1 ACCESSIBLE SIGNAGE
10425.D1 ACCESSIBLE/UNISEX RESTROOM SIGNAGE
10500.A0 METAL LOCKERS (WIDTH)
10500.B0 METAL STORAGE CABINETS
10522.A0 FIRE EXTINGUISHER
10800.B1 SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.D0 MOP RACK

12511.A0 HORIZONTAL LOUVER BLINDS

14620.A0 TROLLEY HOIST (SIZE) SEE STRUCTURAL

15410.C0 UTILITY SINK
15410.D1 FLOOR SINK
15410.E0 TRENCH DRAIN
15412.A0 EMERGENCY SHOWER & EYE WASH
15452.A1 DRINKING FOUNTAIN
15486.A1 FUEL FIRED WATER HEATERS
15490.D0 280 GAL. DOUBLE WALL WASTE OIL TANK
15491.A0 AIR COMPRESSOR
15491.C0 OVERHEAD HOSE REELS
15611.A1 PROPANE GAS FIRED FURNACE
15838.A0 EXHAUST FAN – SEE MECHANICAL
15887.A1 LOUVER WITH BIRD SCREEN

16210.A1 ELECTRICAL METER – SEE ELECTRICAL DRAWINGS
16411.A1 EMERGENCY DISCONNECT – SEE ELECTRICAL
16442.A0 ELECTRICAL PANEL – SEE ELECTRICAL DRAWINGS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL C2/AE401

5. SEE SHEET C1/AE501 FOR WALL TYPES.

6. TWO BOLLARDS REQUIRED PER SECTIONAL DOOR JAMB. ALIGN WITH DOOR JAMB, SEE DETAILS A1 & A2/AE402.

7. SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION/CONTROL JOINT LOCATIONS IN CONCRETE SLAB.

8. ALL DIMENSIONS ARE TO FACE OF WALL, UNLESS NOTED OTHERWISE.

9. PROVIDE 03053.A0 AT ALL CONCRETE CURBS, PIERS, SLABS, STEM WALL ETC. U.N.O.

10. PROVIDE 03054.A0 OVER ENTIRE FLOOR SLAB AT ROOMS 101 & 104.

11. SEE SHEET AE402 FOR ALL SIGNAGE DETAILS

CLIENT

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160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
06-310619-0301
LICENSED ARCHITECT

ISSUE

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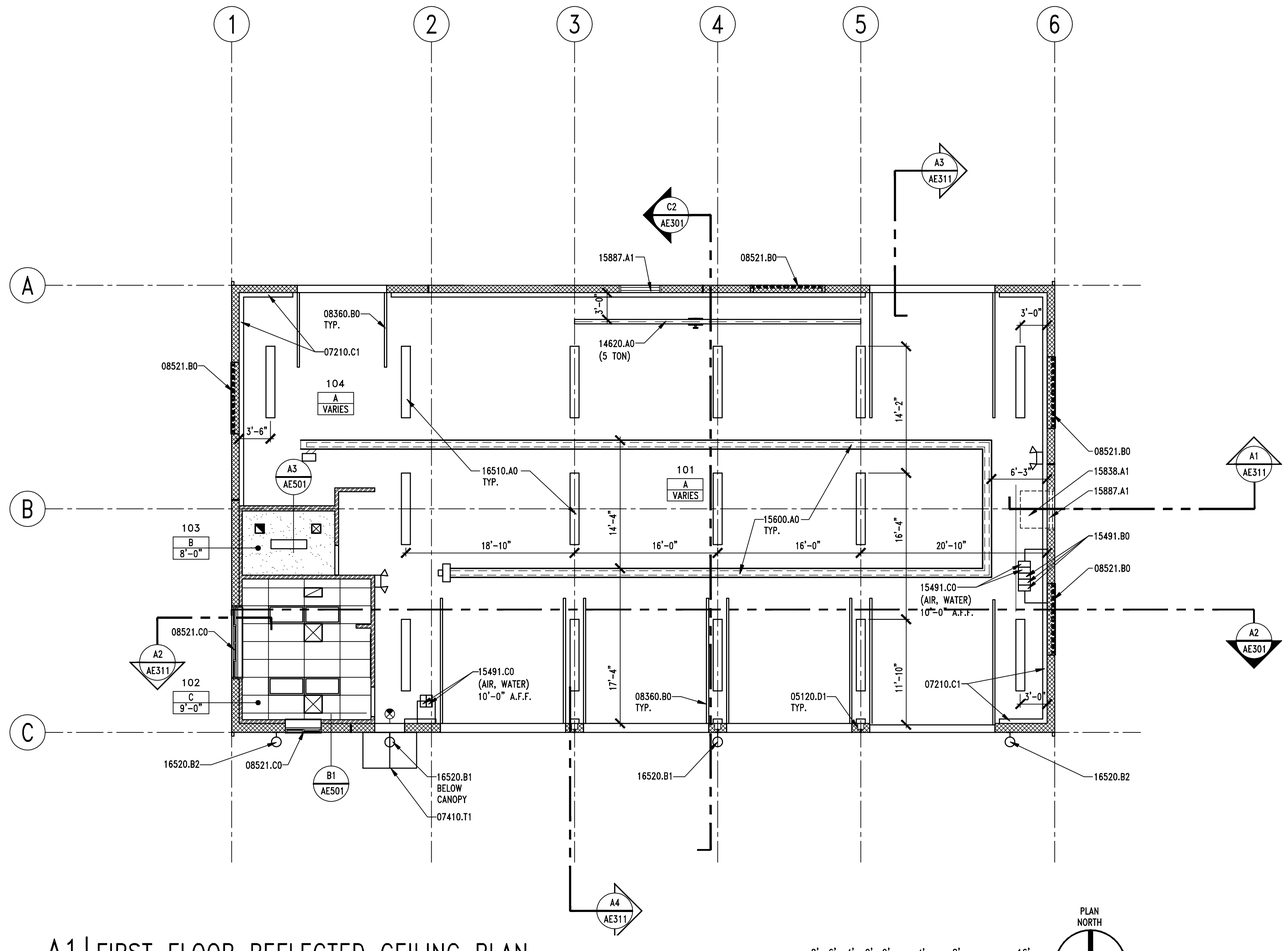
DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8" = 1'-0"
DATE:	FEBRUARY, 2009

SHEET TITLE

FLOOR PLAN

AE101



A1 | FIRST FLOOR REFLECTED CEILING PLAN

AE121 | REF. SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

ROOM # — 131
TYPE — E
ELEVATION A.F.F. — VARIES

TYPE A	EXPOSED STRUCTURE – PAINTED
TYPE B	5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM – PAINTED
TYPE C	2' X 4' LAY – IN CEILING GRID SYSTEM WITH ACOUSTICAL PANELS

GENERAL NOTES

1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION.

2. CEILING HEIGHT SHOWN IN ROOM TAG INDICATES HEIGHT OF DOMINANT CEILING FINISH. SEE NOTES FOR ADDITIONAL CEILING FINISH INFORMATION.

3. SEE DETAIL A1 & B2/AE501 FOR SEISMIC BRACING DETAIL.

4. ROOF STRUCTURE NOT SHOWN FOR CLARITY.

5. COORDINATE LOCATION OF OVERHEAD DOOR TRACKS WITH LIGHTING FIXTURES TO INSURE PROPER OPERATION OF OVERHEAD DOORS.

KEYNOTES

05120.D1	TUBE STEEL COLUMN – SEE STRUCTURAL
07210.C1	RIGID INSULATION (CONTINUOUSLY ADHERED TO CMU) W/ FOIL FACED VAPOR BARRIER TOWARDS INTERIOR (R-VALUE)
07410.T1	STANDING SEAM METAL CANOPY
08360.B0	3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08521.B0	FIXED VINYL WINDOW
08521.C0	VINYL WINDOW W/SLIDING GLASS PANEL
14620.A0	TROLLEY HOIST (SIZE) SEE STRUCTURAL
15491.B0	OVERHEAD LUBE REELS
15491.C0	OVERHEAD HOSE REELS
15600.A0	NATURAL GAS RADIANT HEATING SYSTEM
15838.A1	EXHAUST FAN – SEE MECHANICAL
15887.A1	LOUVER WITH BIRD SCREEN – SEE MECHANICAL
16510.A0	INTERIOR LIGHTS
16520.B1	EXTERIOR WALL MOUNTED LIGHTS
16520.B2	EXTERIOR WALL MOUNTED FLOOD LIGHTS

CEILING SYMBOLS

- PAINTED GYP. BD. CEILING
- 2' x 4' FLUORESCENT LIGHT FIXTURE, SEE ELECT. DRAWINGS FOR TYPE.
- 1' x 4' FLUORESCENT LIGHT FIXTURE
- 1' x 8' FLUORESCENT LIGHT FIXTURE
- RETURN AIR GRILLE – HORIZONTAL (SEE MECH. DRAWINGS)
- SUPPLY AIR GRILLE – HORIZONTAL (SEE MECH. DRAWINGS)
- RADIANT HEAT SYSTEM (SEE MECH. DRAWINGS)
- EXHAUST FAN (SEE MECH. DRAWINGS)
- EXIT SIGN
- EMERGENCY FLOOD LIGHTS
- EXTERIOR WALL MOUNTED LIGHTS

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architecture · planning · design services
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P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

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RALPH M. STANISLAW
05-01619-0501
STATE OF UTAH
LICENSED ARCHITECT

ISSUE

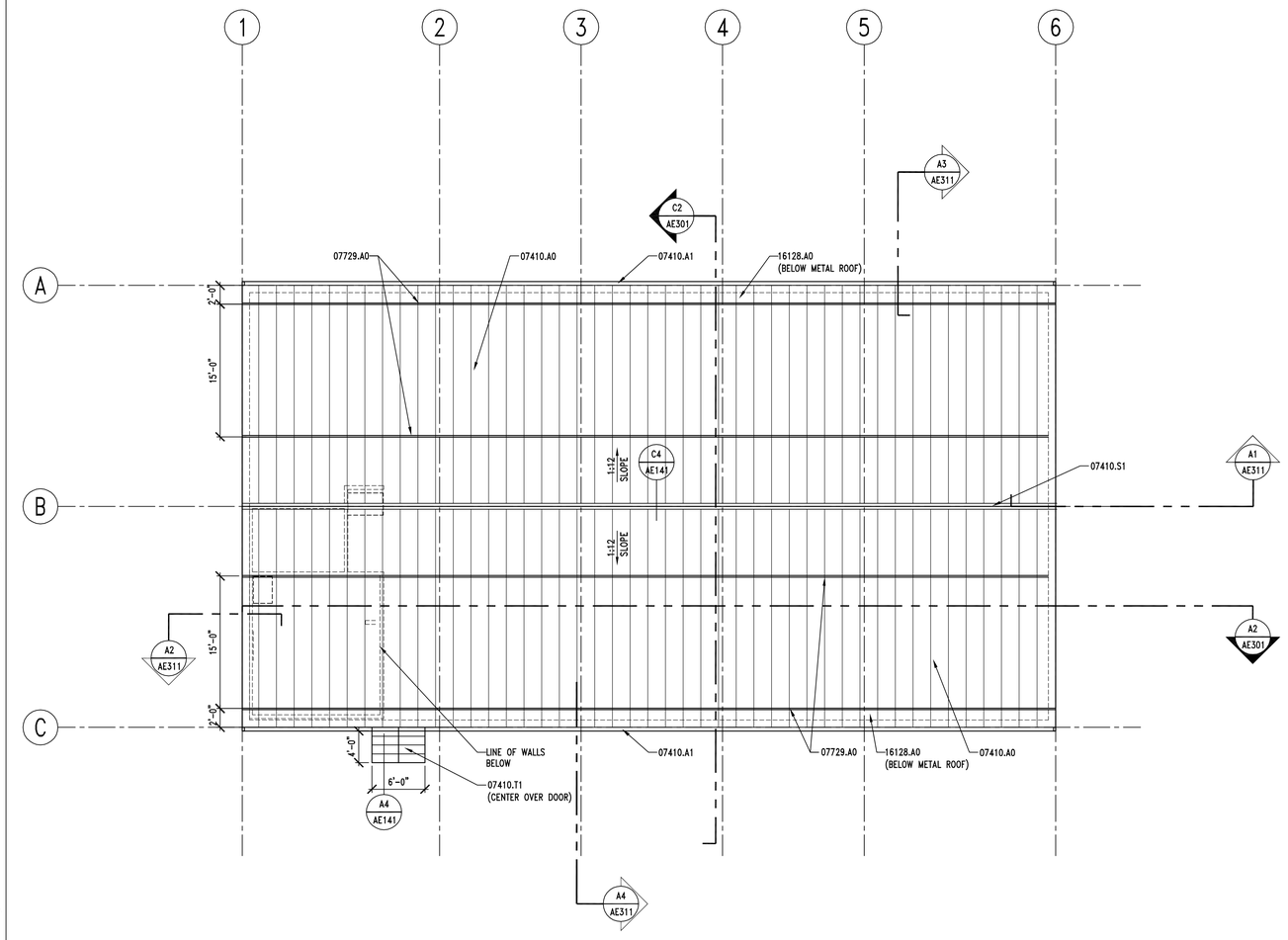
MARK	DATE	DESCRIPTION
	2-09	CONSTRUCTION DOCUMENTS
	1-20-09	90% REVIEW SUBMITTAL

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8" = 1'-0"
DATE:	FEBRUARY, 2009

SHEET TITLE

REFLECTED CEILING PLAN

AE121

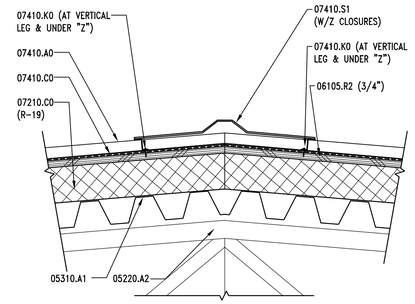


A1 | ROOF PLAN

AE141 | REF. | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

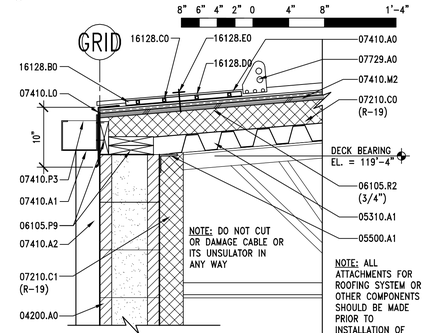
PLAN NORTH



C4 | ROOF RIDGE DETAIL

AE141 | REF. AE141 | SCALE: 1-1/2" = 1'-0"

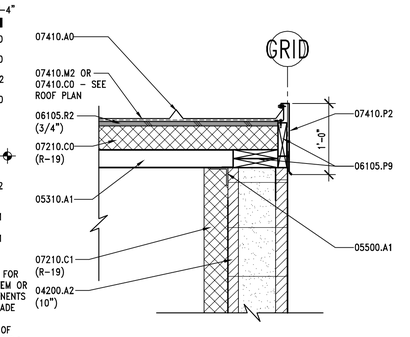
8" 6" 4" 2" 0 4" 8" 1'-4"



B4 | ROOF DETAIL

AE141 | REF. AE311 | SCALE: 1' = 1'-0"

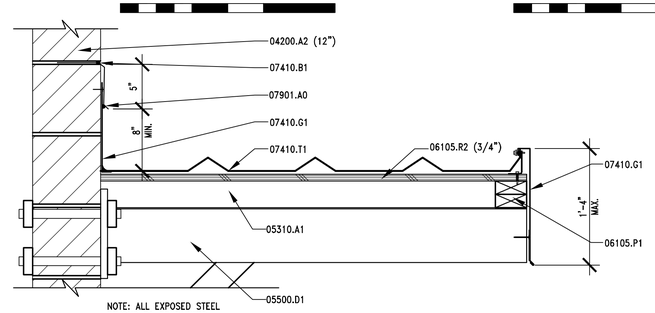
12" 9" 6" 3" 0 6" 1' 2'



B5 | ROOF DETAIL

AE141 | REF. AE311 | SCALE: 1' = 1'-0"

12" 9" 6" 3" 0 6" 1' 2'



A4 | REGLET DETAIL

AE141 | REF. AE201 | SCALE: 1-1/2" = 1'-0"

8" 6" 4" 2" 0 4" 8" 1'-4"

KEYNOTES

04200.A0	CMU
04200.A2	CMU (SIZE)
05220.A2	STEEL JOISTS – SEE STRUCTURAL – PRIMED AND PAINTED
05310.A1	METAL DECK – SEE STRUCTURAL
05500.A1	STEEL ANGLE – SEE STRUCTURAL
05500.D1	CHANNEL – SEE STRUCTURAL
06105.P1	2X4
06105.R2	SHEATHING – PLYWOOD (THICKNESS)
07210.C0	RIGID INSULATION FOILED FACED W/VAPOR BARRIER
07210.C1	RIGID INSULATION (CONTINUOUSLY ADHERED TO CMU) W/FOIL FACED VAPOR BARRIER TOWARDS INTERIOR (R-VALUE)
07410.A0	STANDING SEAM METAL ROOF
07410.A1	RAIN GUTTER WITH CONTINUOUS HEAT TAPE
07410.A2	DOWNSPOUT WITH CONTINUOUS HEAT TAPE
07410.B1	METAL REGLET
07410.C0	ROOFING FELT
07410.G1	FLASHING, FINISH TO MATCH ROOF COLOR
07410.K0	SEALANT
07410.L0	METAL FACIA
07410.M2	ICE & WATER SHIELD
07410.P2	RAKE TRIM
07410.P3	GUTTER STRAPS
07410.S1	STANDING SEAM METAL ROOF RIDGE
07410.T1	STANDING SEAM METAL ROOF CANOPY
07729.A0	STANDING SEAM METAL ROOF 2 PIPE SNOWGUARD SYSTEM
07901.A0	CONTINUOUS SEALANT
16128.A0	LOW VOLTAGE DE-ICING SNOW MELTING CABLE SYSTEM
16128.B0	LOW VOLTAGE DE-ICING CABLING BOARD W/PRE CUT GROOVES
16128.C0	LOW VOLTAGE DE-ICING CABLE
16128.D0	LOW VOLTAGE DE-ICING CABLE PROTECTOR
16128.E0	ATTACHMENT AS PER MANUFACTURER RECOMENDATIONS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION.

4. SEE SHEET AE201 FOR EXTERIOR FINISH COLORS.

5. SEE STRUCTURAL DRAWINGS FOR CANOPY DETAILS.

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL

RALPH M. STANISLAW
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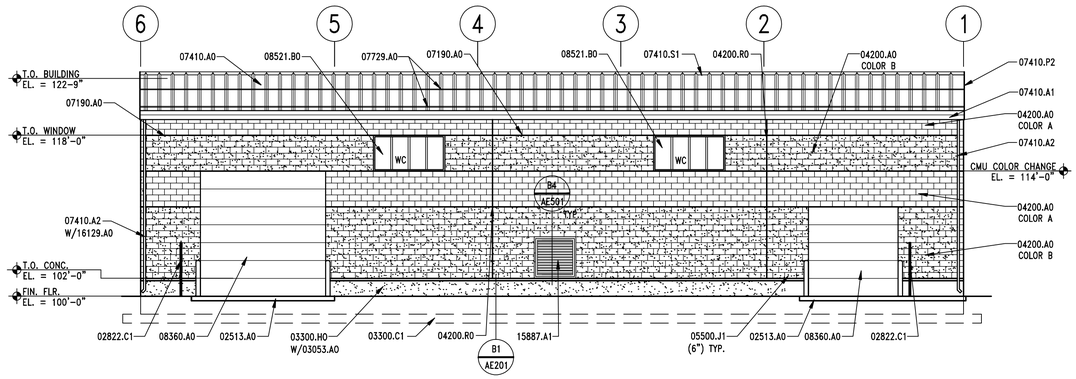
SHEET TITLE

ROOF PLAN

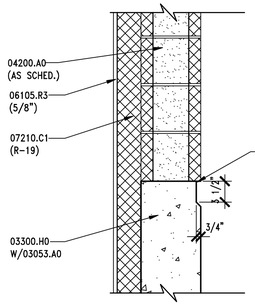
AE141



D2 | EXTERIOR ELEVATION – NORTH

AE201 | REF. AE101 | SCALE: 1/8" = 1'-0"

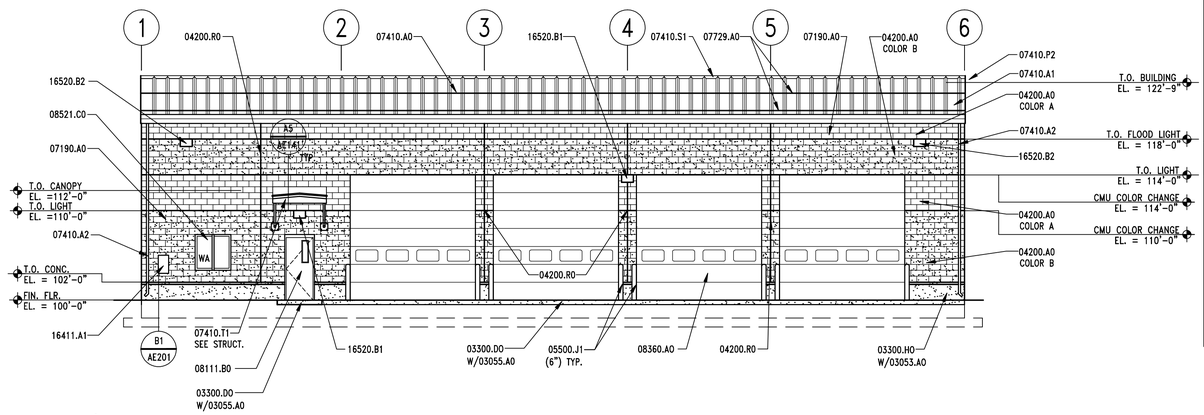
8' 6' 4' 2' 0' 4' 8' 16'



B1 | FOUNDATION WALL

AE201 | REF. AE201 | SCALE: 1" = 1'-0"

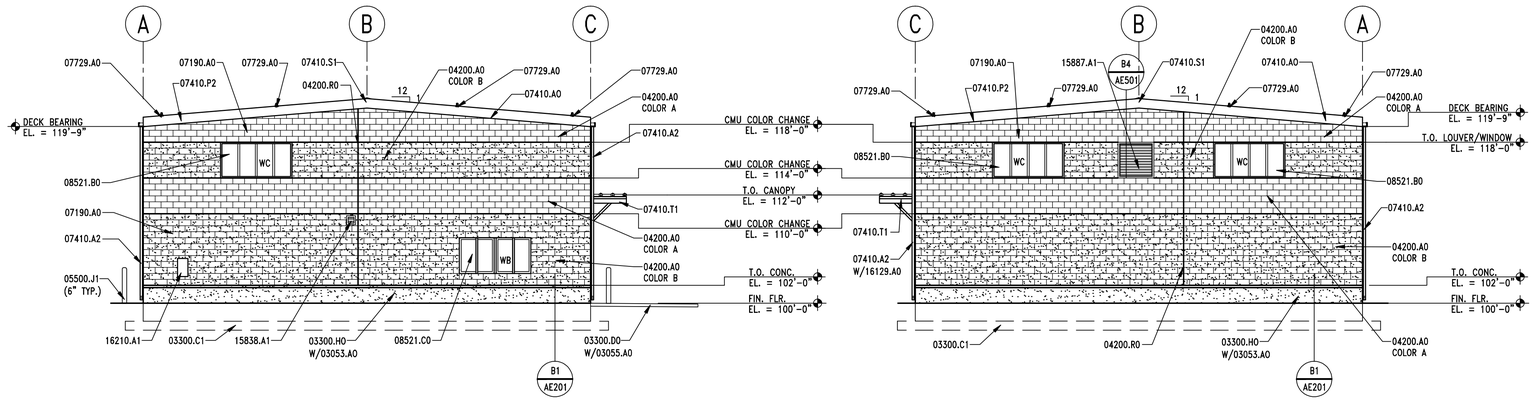
12" 9" 6" 3" 0 6" 1' 2'



B2 | EXTERIOR ELEVATION – SOUTH

AE201 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'



A1 | EXTERIOR ELEVATION – WEST

AE201 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

A3 | EXTERIOR ELEVATION – EAST

AE201 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

EXTERIOR ELEVATION KEYNOTES

02513.A0 CONCRETE ASPHALT PAVING
02822.C1 NEW 6' HIGH CHAIN LINK FENCE – SEE CIVIL

03053.A0 CONCRETE WATER PROOFING ADMIXTURE
03055.A0 SALT AND WATER BARRIER
03300.C1 FOOTING – SEE STRUCTURAL
03300.D0 CONCRETE PAD
03300.H0 FOUNDATION WALL – SEE STRUCTURAL

04200.A0 CMU
04200.R0 MASONRY CONTROL JOINT

05500.J1 PIPE BOLLARD (DIAMETER) GALVANIZED AND PAINTED

06105.R3 PLYWOOD PANEL (THICKNESS) – MECHANICALLY FASTENED THROUGH INSULATION INTO CMU WALL

07190.A0 CLEAR WATER RESISTANT COATING
07210.C1 RIGID INSULATION (CONTINUOUSLY ADHERED TO CMU) W/FOIL FACED VAPOR BARRIER TOWARDS INTERIOR (R-VALUE)
07410.A0 STANDING SEAM METAL ROOF
07410.A1 RAIN GUTTER W/CONTINUOUS HEAT TAPE
07410.A2 DOWNSPOUT W/CONTINUOUS HEAT TAPE
07410.P2 RAKE TRIM
07410.S1 STANDING SEAM METAL ROOF RIDGE
07410.T1 STANDING SEAM METAL CANOPY
07729.A0 STANDING SEAM METAL ROOF 2 PIPE SNOW GUARD SYSTEM
07901.A0 CONTINUOUS SEALANT

08111.B0 HOLLOW METAL DOOR
08360.A0 HEAVY DUTY OVERHEAD SECTIONAL DOOR
08521.B0 FIXED VINYL WINDOW
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL

15838.A1 EXHAUST FAN VENT – SEE MECHANICAL
15887.A1 LOUVER WITH BIRD SCREEN – SEE MECHANICAL

16210.A1 ELECTRICAL METER – SEE ELECTRICAL
16411.A1 EMERGENCY DISCONNECT – SEE ELECTRICAL
16442.A0 ELECTRICAL PANEL
16520.B1 EXTERIOR WALL MOUNTED LIGHTS
16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE SHEET AE602 FOR WINDOW FRAME TYPES AND DETAILS.

4. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

5. SEE AE101 FOR CONTROL JOINT LOCATIONS

EXTERIOR COLOR SCHEDULE

(04200.A2) SMOOTH CMU: COLOR A – BUEHNER BLOCK "OAK" OR EQUAL
(04200.A2) SPLIT FACE CMU: COLOR B – BUEHNER BLOCK "WHEAT" OR EQUAL.
(05500.J1) BOLLARDS: OSHA SAFETY YELLOW
(07410.A0) METAL ROOF: COLOR TO MATCH KWAL "CL 2124D" SUFFIELD OR EQUAL.
(07410.A1 & 07410.P2) GUTTERS & RAKE TRIM: COLOR TO MATCH KWAL "CL 2124D" SUFFIELD OR EQUAL.
(07410.A2) DOWNSPOUTS: COLOR TO MATCH KWAL "CL 2124D" SUFFIELD OR EQUAL.
(07410.T1) ROOF FLASHING: COLOR TO MATCH KWAL "CL 2124D" SUFFIELD OR EQUAL.
(08111.B0) DOORS & FRAMES: KYNAR 500 WHITE
(08521.B0) WINDOW FRAMES: KYNAR 500 WHITE
(15838.A1) EXHAUST FAN VENT: PRE-FINISHED KYNAR 500 WHITE
(15887.A1) LOUVERS: PRE-FINISHED KYNAR 500 WHITE
(16520.B1 & 16520.B2) EXTERIOR LIGHT FIXTURES: WHITE

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL

RALPH M. STANISLAW
05-310819-0301
STATE OF UTAH
LICENSED ARCHITECT

ISSUE

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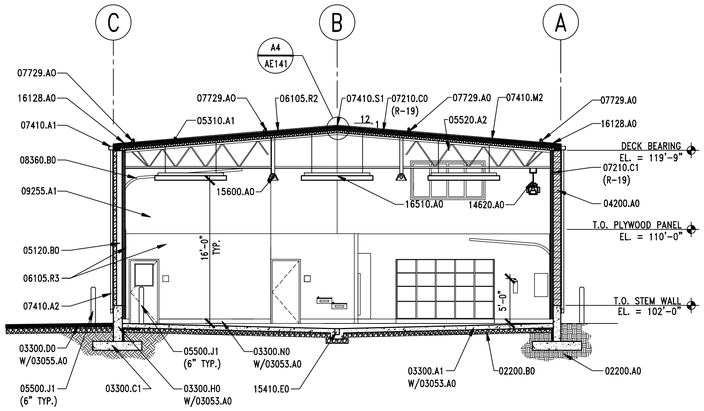
SCALE:	1/8"=1'-0"
DATE:	FEBRUARY, 2009

SHEET TITLE

EXTERIOR ELEVATIONS

AE201

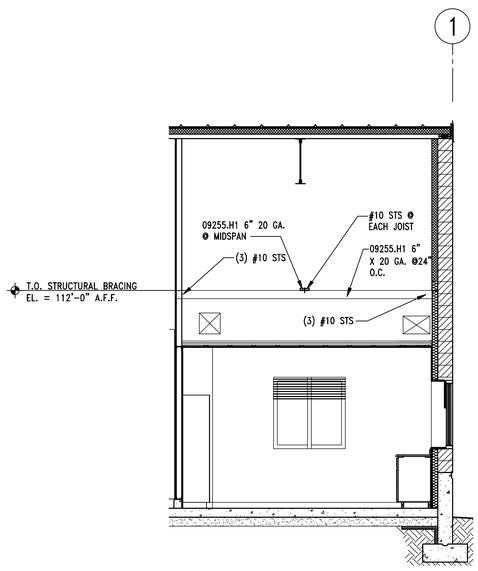
XREF-AE01-AE201-B1



C2 | BUILDING SECTION

AE301 | REF. AE101 | SCALE: 1/8" = 1'-0"

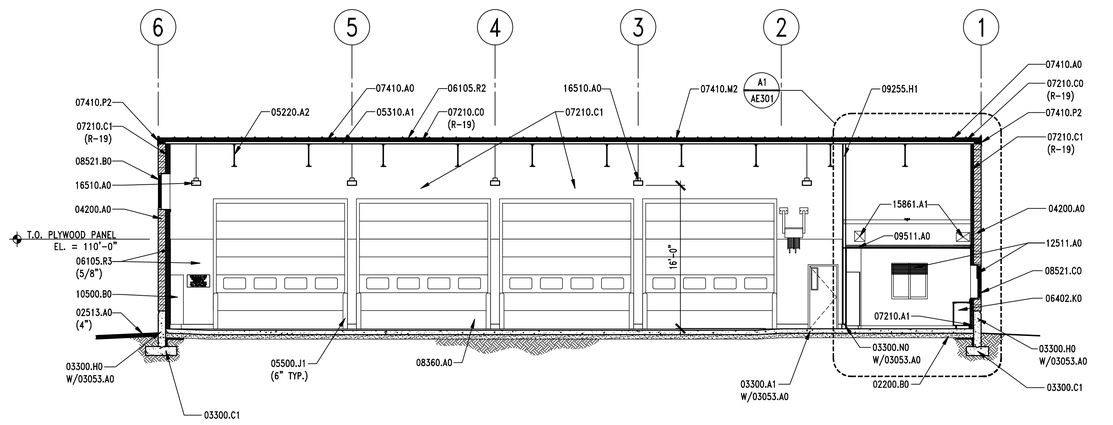
8' 6' 4' 2' 0' 4' 8' 16'



A1 | STRUCTURAL BRACING SECTION

AE301 | REF. AE101 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0' 2' 4' 8'



A2 | BUILDING SECTION

AE301 | REF. AE101 | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

BUILDING SECTION KEYNOTES

02200.A0 COMPACTED FILL
02200.B0 GRAVEL BASE
02513.A0 ASPHALT CONCRETE PAVING

03053.A0 CONCRETE WATER PROOFING ADMIXTURE
03054.A0 OLIOPHOBIC TOPICAL SEALER
03055.A0 SALT AND WATER BARRIER
03300.A1 CONCRETE SLAB-ON-GRADE - SEE STRUCTURAL
03300.C1 FOOTING - SEE STRUCTURAL
03300.D0 CONCRETE PAD
03300.H0 FOUNDATION WALL - SEE STRUCTURAL
03300.N0 CONCRETE CURB

04200.A0 CMU

05120.B0 STEEL COLUMN - SEE STRUCTURAL
05220.A2 STEEL JOISTS - SEE STRUCTURAL - PRIMED AND PAINTED
05310.A1 METAL DECK - SEE STRUCTURAL
05500.J1 PIPE BOLLARD (DIAMETER) GALV. AND PAINTED

06105.R2 SHEATHING - PLYWOOD (THICKNESS)
06105.R3 PLYWOOD PANEL (THICKNESS) - MECHANICALLY FASTENED THROUGH INSULATION INTO CMU WALL
06402.K0 BASE UNIT (FINISH)

07210.C0 RIGID INSULATION FOIL FACED W/VAPOR BARRIER
07210.C1 RIGID INSULATION (CONTINUOUSLY ADHERED TO CMU) W/FOIL FACED VAPOR BARRIER TOWARDS INTERIOR (R-VALUE)
07410.A0 STANDING SEAM METAL ROOF
07410.A1 RAIN GUTTER W/CONTINUOUS HEAT TAPE
07410.A2 DOWNSPOUT W/CONTINUOUS HEAT TAPE
07410.M2 ICE & WATER SHIELD
07410.P2 RAKE TRIM
07410.S1 STANDING SEAM METAL ROOF RIDGE
07729.A0 STANDING SEAM METAL ROOF 2 PIPE SNOWGUARD SYSTEM

08360.A0 HEAVY DUTY OVERHEAD SECTIONAL DOOR
08360.B0 3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08521.B0 FIXED VINYL WINDOW
08521.C0 VINYL WINDOW WITH SLIDING GLASS PANEL

09511.A0 LAY-IN ACOUSTICAL CEILING SYSTEM
09255.A1 GYPSUM BOARD (THICKNESS)
09255.H1 METAL STUD (SIZE)
09255.U1 SUSPENDED CEILING SYSTEM

10500.B0 METAL STORAGE CABINETS - W/HOLD DOWN ANCHORS

12511.A0 HORIZONTAL LOUVER BLINDS

14620.A0 TROLLEY HOIST (SIZE)

15410.E0 TRENCH DRAIN
15600.A0 PROPANE GAS RADIANT HEATER SYSTEM
15779.A0 LOW VOLTAGE DE-ICING SYSTEM
15861.A1 MECHANICAL DUCTWORK - SEE MECHANICAL
15887.A1 LOUVER W/ BIRD SCREEN - SEE MECHANICAL

16128.A0 LOW VOLTAGE DE-ICING SNOW MELTING CABLE SYSTEM
16510.A0 INTERIOR LIGHTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE DETAILS A1 & A2/AE402 FOR TYPICAL BOLLARD DETAILS.

4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

5. PROVIDE 03053.A0 AT ALL CONCRETE CURBS, PIERS, SLABS, STEM WALL ETC. U.N.O.

6. PROVIDE 03054.A0 OVER ENTIRE FLOOR SLAB IN ROOMS 101 & 104.

CLIENT

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STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
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06-310818-0301
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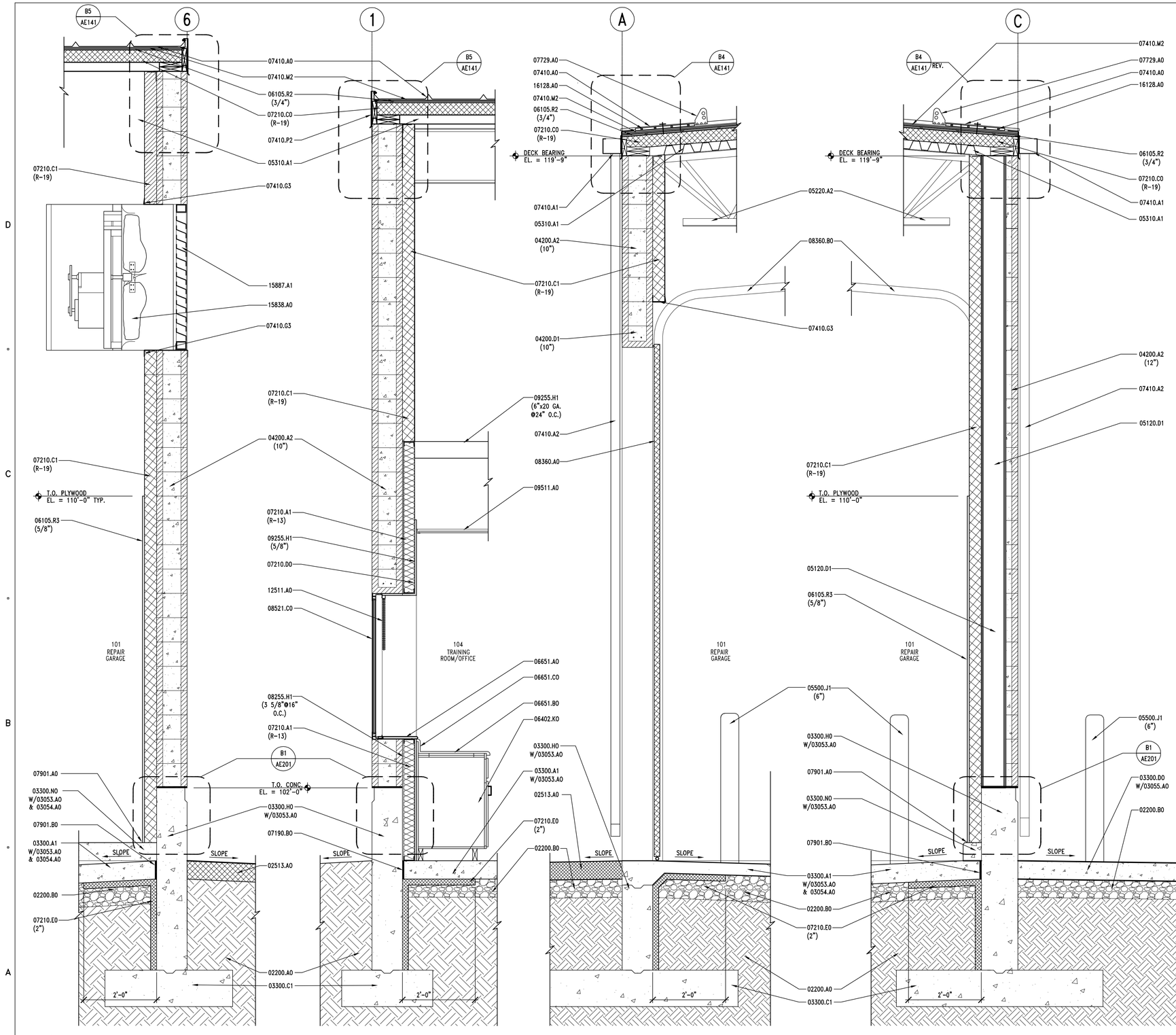
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2009

SHEET TITLE

BUILDING SECTIONS

AE301



A1 EXT. WALL SECTION

AE311 | REF. AE101 | SCALE: 1/2" = 1'-0"

A2 EXT. WALL SECTION

AE311 | REF. AE101 | SCALE: 1/2" = 1'-0"

A3 EXT. WALL SECTION

AE311 | REF. AE101 | SCALE: 1/2" = 1'-0"

A4 EXT. WALL SECTION

AE311 | REF. AE101 | SCALE: 1/2" = 1'-0"

24" 18" 12" 6"' 0' 1' 2' 4'

KEYNOTES

02200.A0	COMPACT FILL
02200.B0	GRAVEL BASE
02513.A0	ASPHALT CONCRETE PAVING
03053.A0	CONCRETE WATERPROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03055.A0	SALT AND WATER BARRIER FOR EXTERIOR CONCRETE
03300.A1	CONCRETE SLAB-ON-GRADE - SEE STRUCTURAL
03300.C1	FOOTING - SEE STRUCTURAL
03300.D0	CONCRETE PAD
03300.H0	FOUNDATION WALL - SEE STRUCTURAL
03300.N0	CONCRETE CURB
04200.A2	CMU (SIZE)
04200.D1	CMU LINTEL - SEE STRUCTURAL
05120.D1	TUBE STEEL COLUMN - SEE STRUCTURAL
05220.A2	STEEL JOISTS - SEE STRUCTURAL - PRIMED AND PAINTED
05310.A1	METAL DECK - SEE STRUCTURAL
05500.J1	PIPE BOLLARD (DIAMETER) - GALVANIZED & PAINTED
06105.R2	SHEATHING - PLYWOOD (THICKNESS)
06105.R3	PLYWOOD PANEL (THICKNESS) - MECHANICALLY FASTENED THROUGH INSULATION TO CMU WALL
06402.K0	BASE UNIT (FINISH)
06651.A0	1/2" WHITE SOLID SURFACE WINDOW SILL
06651.B0	SOLID SURFACE COUNTER TOP
06651.C0	SOLID SURFACE BACKSPLASH
07210.A1	BATT INSULATION (R-VALUE)
07210.C0	RIGID INSULATION FOIL FACED W/VAPOR BARRIER
07210.C1	RIGID INSULATION (CONTINOUSLY ADHERED TO CMU) W/FOIL FACED VAPOR BARRIER TOWARDS INTERIOR (THICKNESS)
07210.D0	VAPOR BARRIER
07210.E0	FOUNDATION WALL INSULATION (THICKNESS)
07410.A0	STANDING SEAM METAL ROOF
07410.A1	RAIN GUTTER W/CONTINUOUS HEAT TAPE
07410.A2	DOWNSPOUT W/CONTINUOUS HEAT TAPE
07410.G3	FLASHING AT WINDOW JAMB, HEAD AND SILL
07410.M2	ICE & WATER SHIELD
07410.P2	RAKE TRIM
07729.A0	STANDING SEAM METAL ROOF 2 PIPE SNOWGUARD SYSTEM
07901.A0	CONT. SEALANT
07901.B0	ASPHALT SATURATED FIBERBOARD
08360.A0	HEAVY DUTY OVERHEAD SECTIONAL DOOR
08360.B0	3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08521.C0	VINYL WINDOW W/SLIDING GLASS PANEL
09255.A1	GYPSUM BOARD (THICKNESS)
09255.H0	METAL STUD
09255.H1	METAL STUD (SIZE, SPACING)
09511.A0	LAY-IN ACOUSTICAL CEILING SYSTEM
12511.A0	HORIZONTAL LOUVER BLINDS
15838.A0	EXHAUST FAN - SEE MECHANICAL
15887.A1	LOUVER W/BIRD SCREEN
16128.A0	LOW VOLTAGE DE-ICING SNOW MELTING CABLE SYSTEM

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. TWO BOLLARDS REQUIRED PER SECTIONAL DOOR JAMB. ALIGN WITH DOOR JAMB, SEE DETAILS D4 & D5/AE503.

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SCALE:	1/8" = 1'-0"
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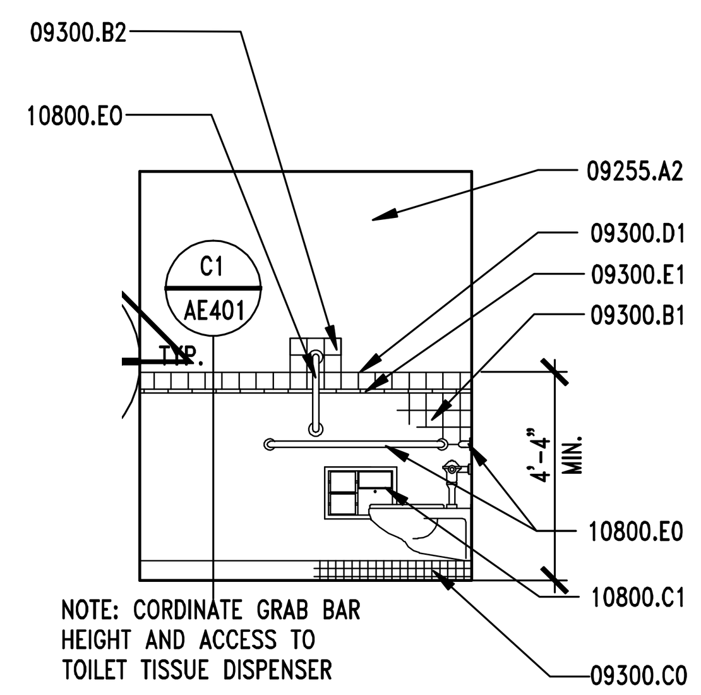
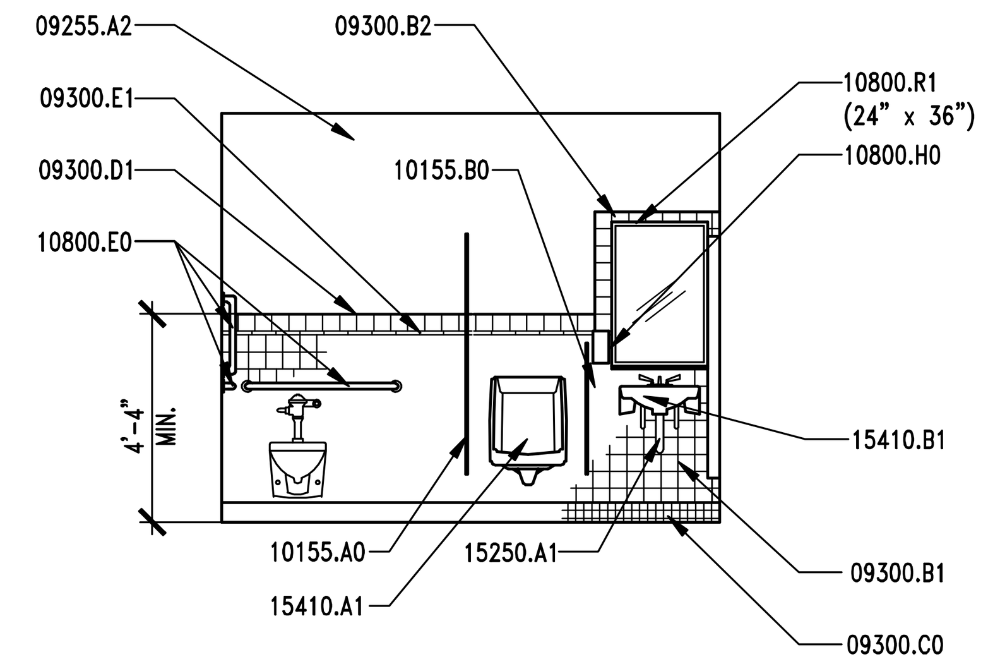
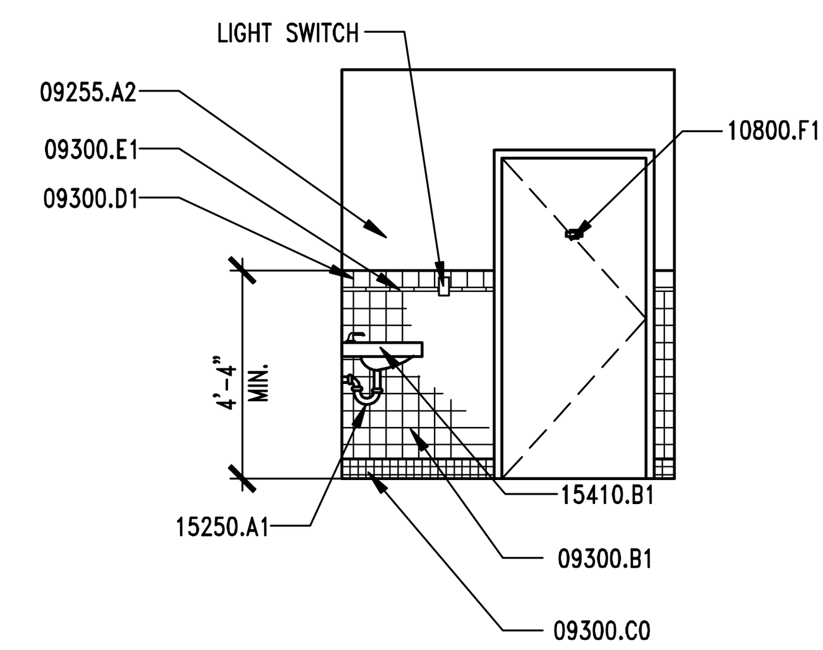
SHEET TITLE

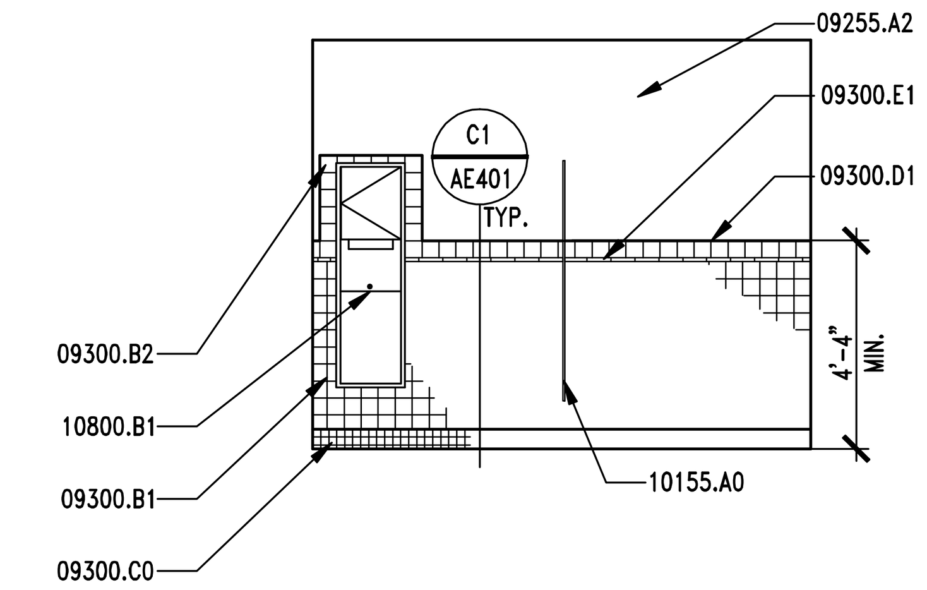
WALL SECTIONS

AE311







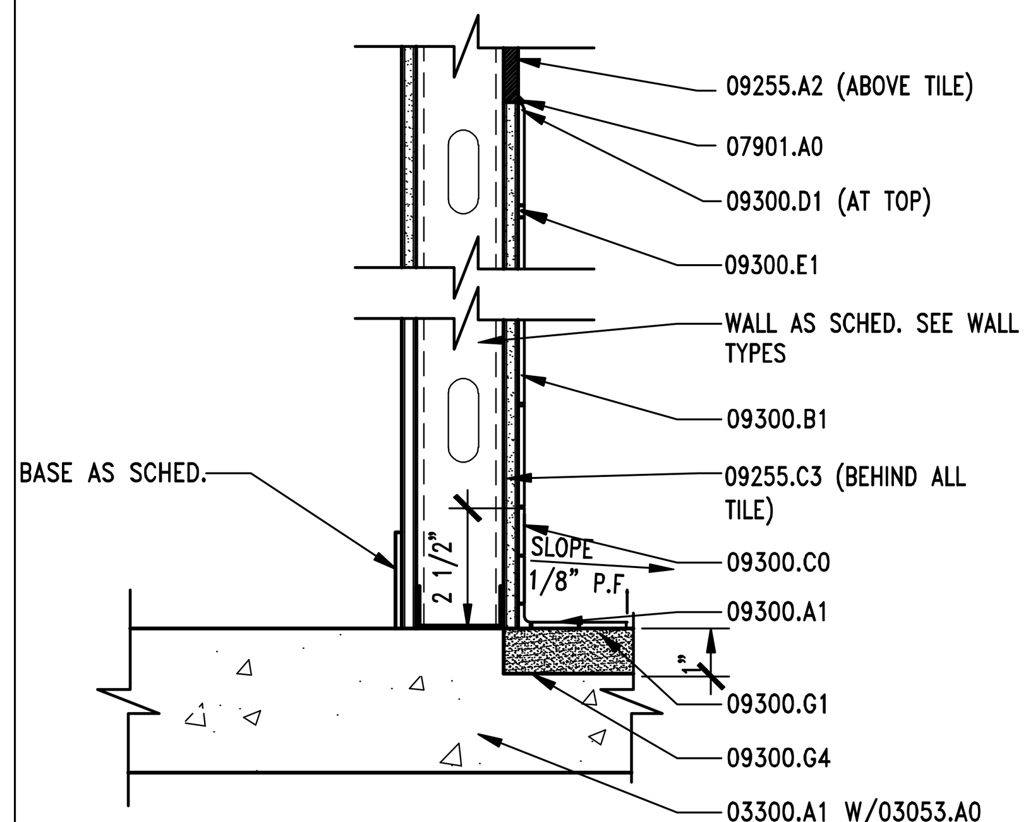


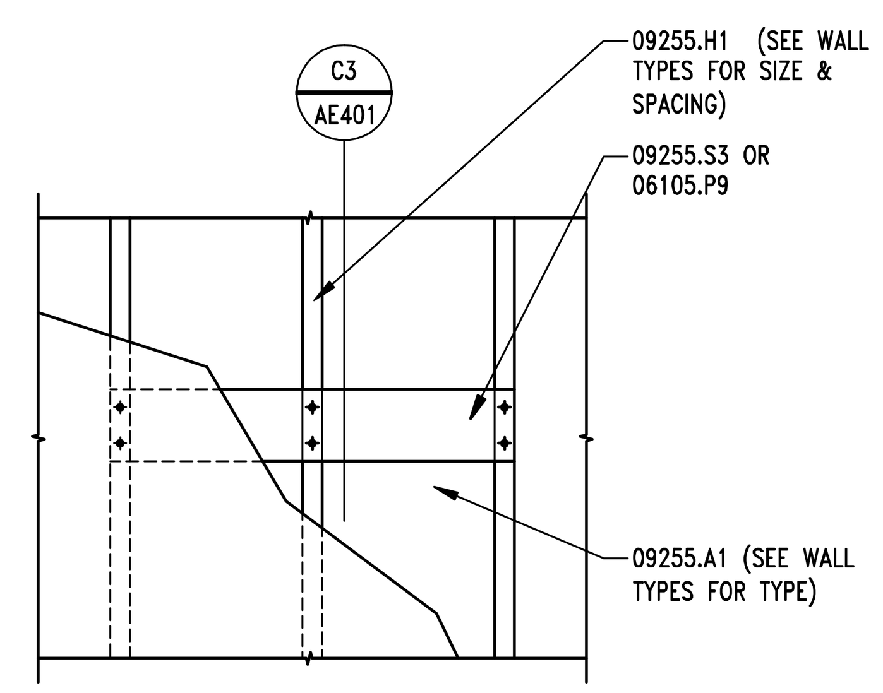
D1 | RESTROOM ELEVATION
AE401 | REF. AE401 | SCALE: 1/4" = 1'-0"

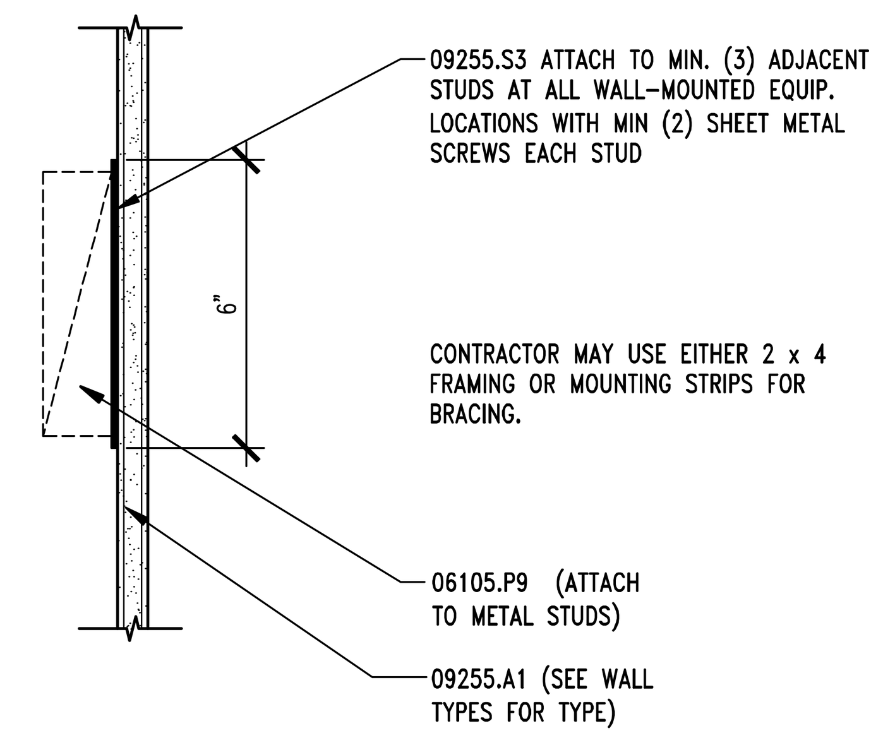
D2 | RESTROOM ELEVATION
AE401 | REF. AE401 | SCALE: 1/4" = 1'-0"

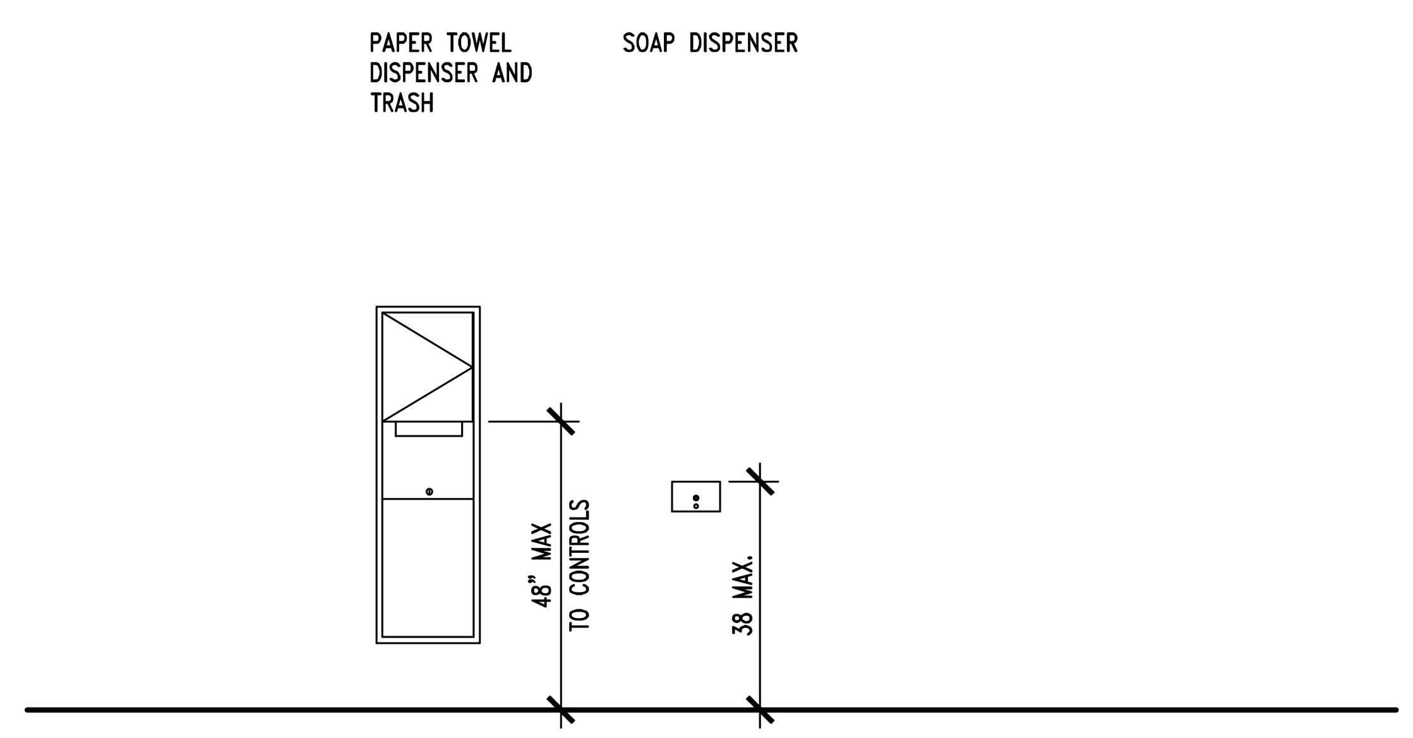
D3 | RESTROOM ELEVATION
AE401 | REF. AE401 | SCALE: 1/4" = 1'-0"

D4 | RESTROOM ELEVATION
AE401 | REF. AE401 | SCALE: 1/4" = 1'-0"







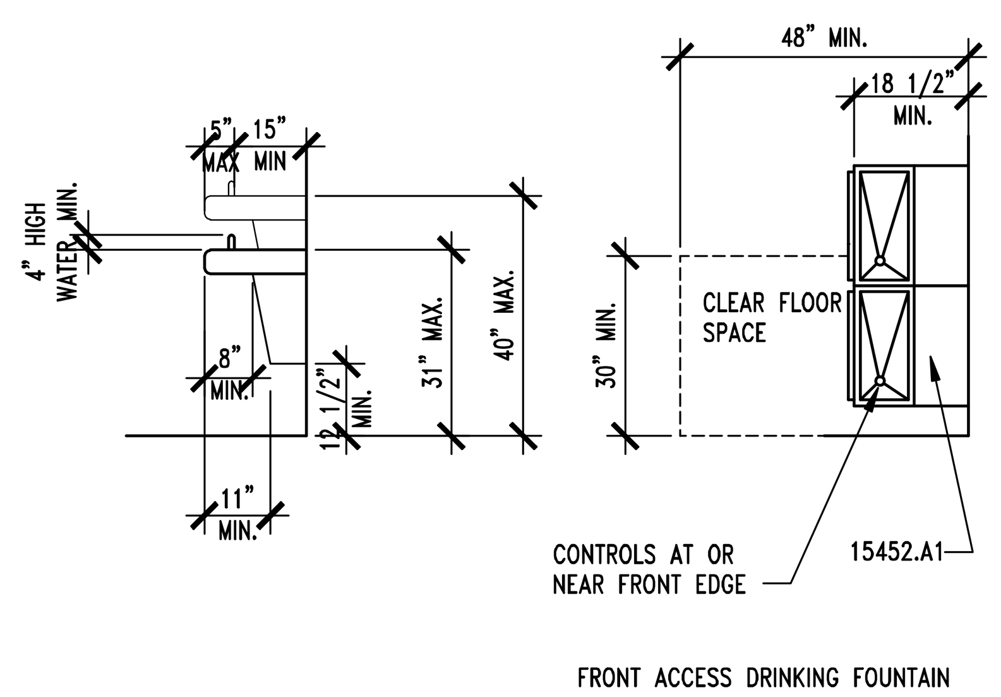


C1 | RECESSED SLAB DETAIL
AE401 | REF. AE401 | SCALE: 3" = 1'-0"

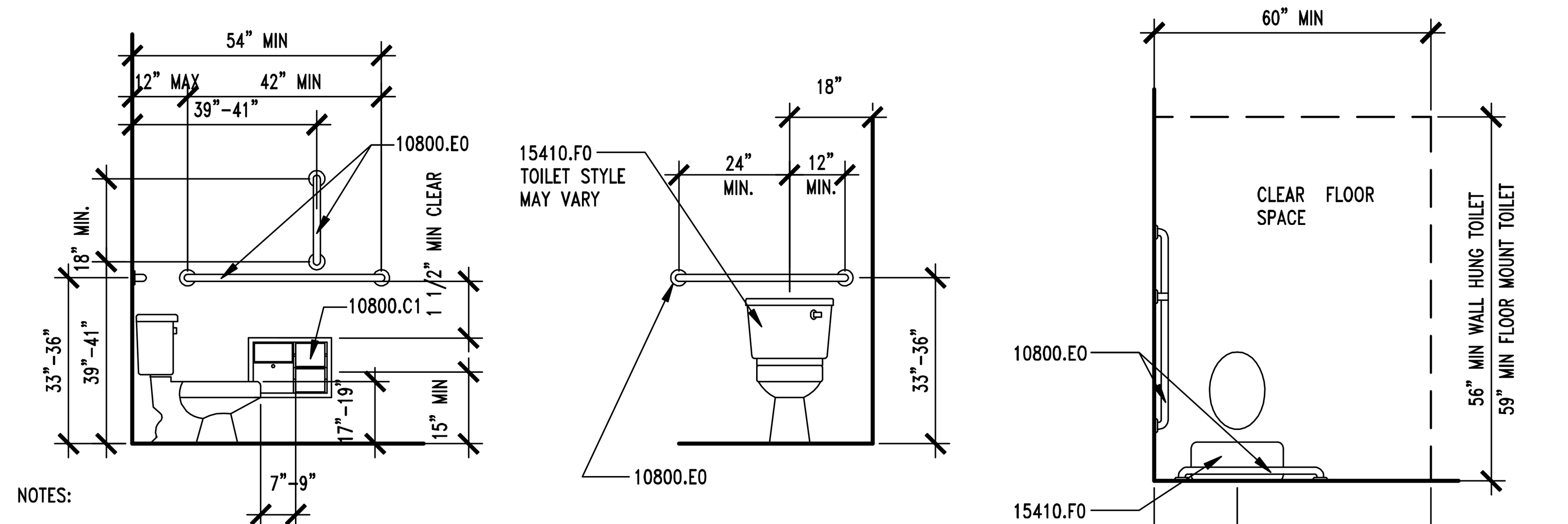
C2 | MOUNTING PLATE ELEV.
AE401 | REF. AE401 | SCALE: 3/4" = 1'-0"

C3 | MOUNTING PLATE SECTION
AE401 | REF. AE401 | SCALE: 3" = 1'-0"

C4 | MOUNTING HEIGHTS
AE401 | REF. AE401 | SCALE: 3/8" = 1'-0"



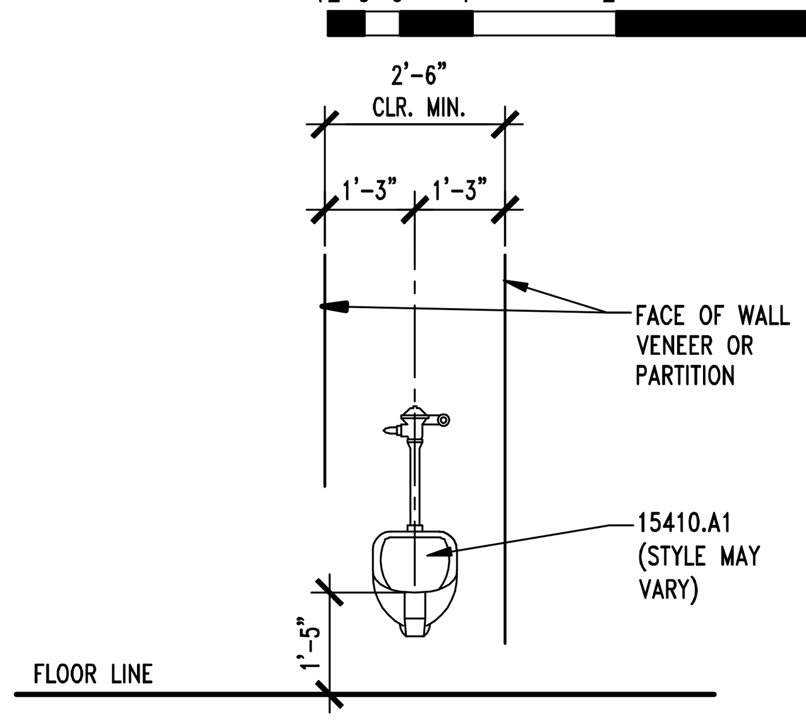
B2 | ACCESSIBLE DRINKING FOUNTAIN DETAIL
AE401 | REF. AE401 | SCALE: 3/8" = 1'-0"



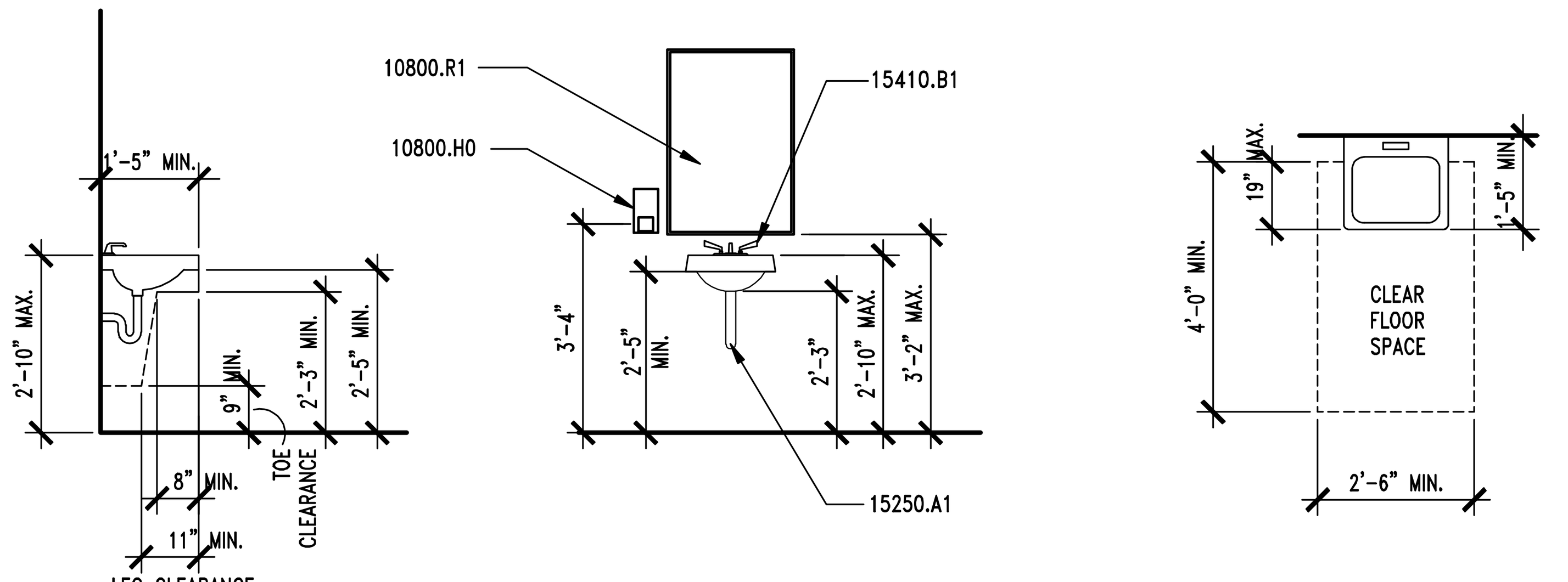
NOTES:

(1) ALL GRAB BARS MUST SUPPORT A LOAD OF 250 POUNDS MIN.
(2) MOUNT GRAB BARS TO MAINTAIN 1 1/2" CLEAR SPACE FROM WALL.

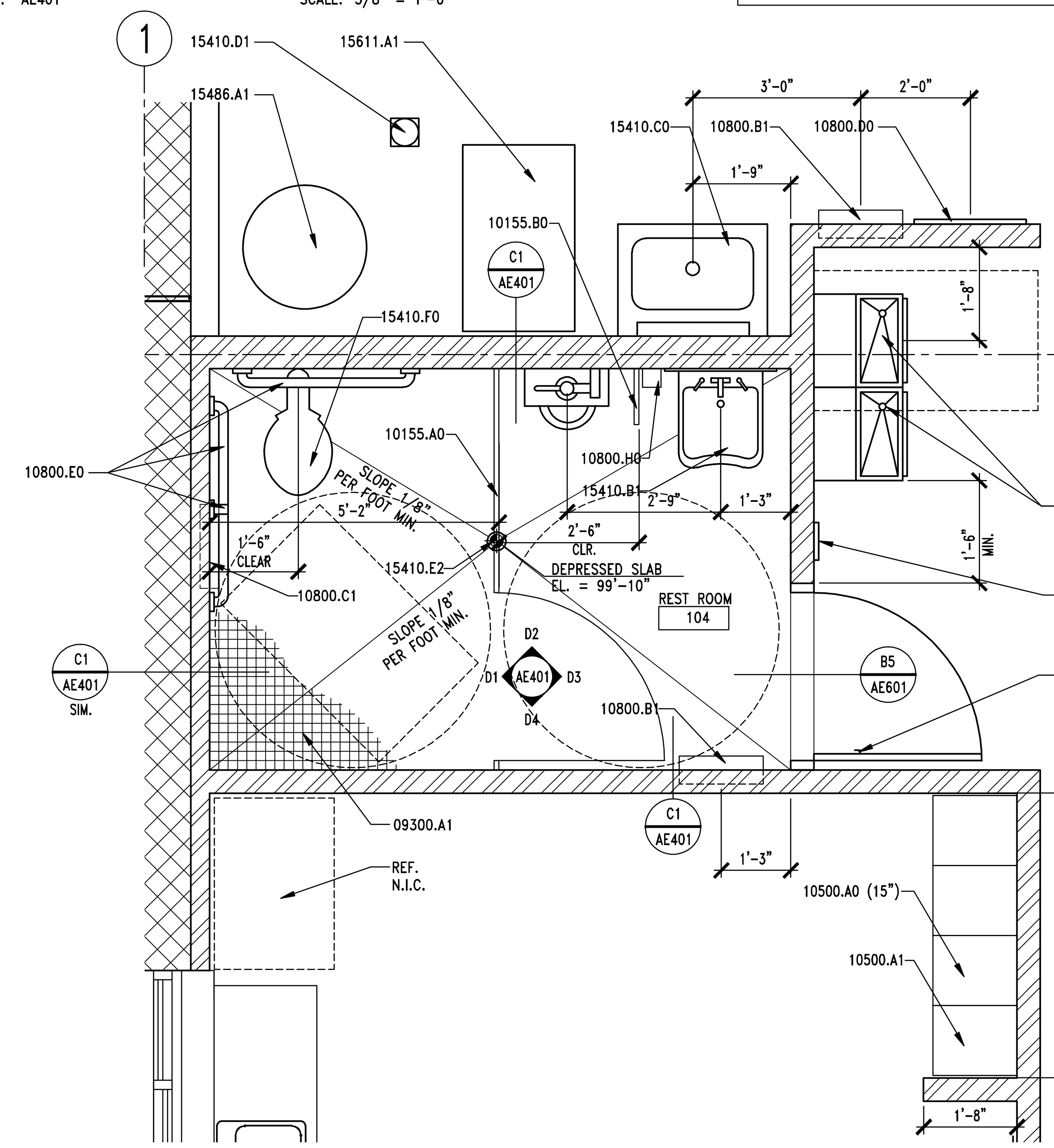
B2 | ACCESSIBLE TOILET DETAIL
AE401 | REF. AE401 | SCALE: 3/8"= 1'-0"



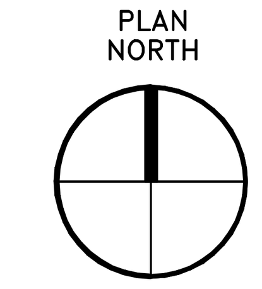
A1 | ACCESSIBLE URINAL DETAIL
AE401 | REF. AE401 | SCALE: 3/8" = 1'-0"



A2 | ACCESSIBLE SINK DETAIL
AE401 | REF. AE401 | SCALE: 3/8" = 1'-0"



A4 | ENLARGED RESTROOM PLAN
AE401 | REF. AE101 | SCALE: 1/2" = 1'-0'



KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03300.A1	CONCRETE SLAB-ON-GRADE – SEE STRUCTURAL
06105.P9	2 x FRAMING, FIRE TREATED
07901.A0	CONTINUOUS SEALANT
09255.A1	GYPSUM BOARD (THICKNESS)
09255.A2	WATER RESISTANT GYPSUM BOARD (THICKNESS)
09255.C3	CEMENT BOARD (THICKNESS)
09255.H1	METAL STUDS (SIZE, SPACING)
09255.S3	18 GA. METAL MOUNTING STRIPS
09300.A1	FLOOR TILE – SEE FINISH SCHEDULE
09300.B1	WALL TILE – SEE FINISH SCHEDULE
09300.B2	PROVIDE TILE FRAME AROUND FIXTURE
09300.C0	TILE BASE – SEE FINISH SCHEDULE
09300.DI	BULLNOSE TILE – SEE FINISH SCHEDULE
09300.E1	1/2" x 6" TILE TRIM PIECE – SEE FINISH SCHEDULE
09300.G1	MORTAR BED
09300.G4	WATERPROOF MEMBRANE
10155.A0	TOILET STALL PARTITION
10155.B0	URINAL STALL PARTITION
10425.D1	ACCESSIBLE/UNISEX RESTROOM SIGNAGE
10500.A0	METAL LOCKERS (WIDTH)
10500.A1	ADA COMPLIANT LOCKER
10800.B1	SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.C1	RECESSED TOILET TISSUE DISPENSER/SAN. NAP. DISPOSAL
10800.D0	MOP RACK
10800.E0	GRAB BAR
10800.F1	DOUBLE PRONG ROBE HOOK
10800.H0	SOAP DISPENSER
10800.R1	FRAMED MIRROR (SIZE)
15250.A1	PIPE INSULATION AT ALL EXPOSED PIPE
15410.A1	URINAL, ACCESSIBLE
15410.B1	SINK AND FAUCET WITH ADA LEVER HANDLES
15410.C0	UTILITY SINK
15410.D1	FLOOR SINK
15410.E2	FLOOR DRAIN
15410.F0	TOILET
15452.A1	DRINKING FOUNTAIN
15486.A1	FUEL FIRED WATER HEATER
15611.A1	PROPANE GAS FIRED FURNACE

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL C2/AE401

5. SEE C4/AE401 FOR TYPICAL FIXTURE MOUNTING HEIGHTS.

6. SEE DETAILS A1, A2, B1, & B2/AE401 FOR ADA TYPICAL DETAILS

7. CONTRACTOR TO ENSURE ALL ADA REQUIRMENTS ARE MET

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
95-310818-0301
LICENSED ARCHITECT

ISSUE

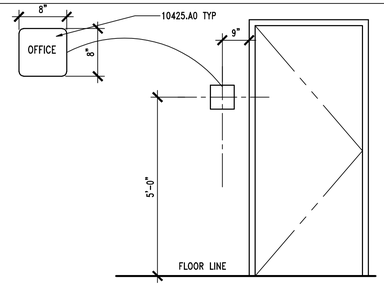
MARK	DATE	DESCRIPTION
	2-09	CONSTRUCTION DOCUMENTS
	1-20-09	90% REVIEW SUBMITTAL

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2009

SHEET TITLE

ENLARGED RESTROOM FLOOR PLAN, INTERIOR ELEVATIONS AND DETAILS

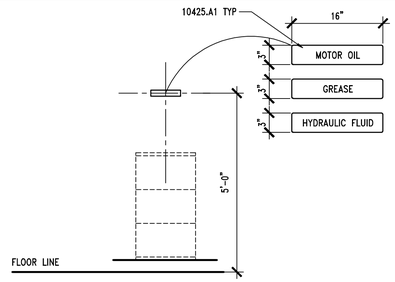
AE401



RE: SPECIFICATION - 10425 FOR MORE INFORMATION

D1 | SIGNAGE "E"

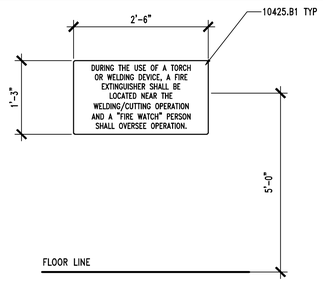
AE402 | REF. AE101 | SCALE: NONE



RE: SPECIFICATION - 10425 FOR MORE INFORMATION

D2 | SIGNAGE "A"

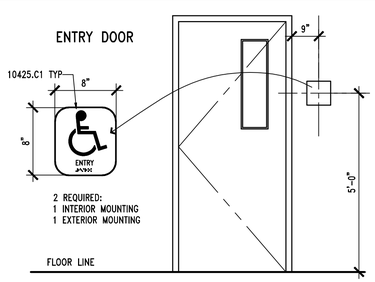
AE402 | REF. AE101 | SCALE: NONE



RE: SPECIFICATION - 10425 FOR MORE INFORMATION

D3 | SIGNAGE "B"

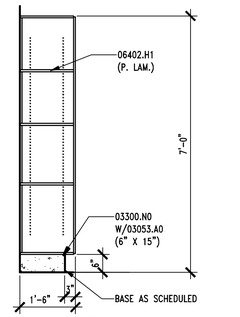
AE402 | REF. AE101 | SCALE: NONE



RE: SPECIFICATION - 10425 FOR MORE INFORMATION

D4 | SIGNAGE "C"

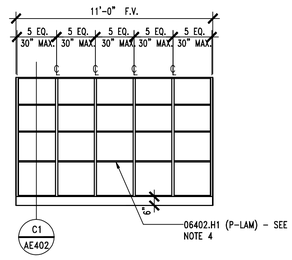
AE402 | REF. AE101 | SCALE: NONE



C1 | SHELVING SECTION

AE402 | REF. AE402 | SCALE: 1/2" = 1'-0"

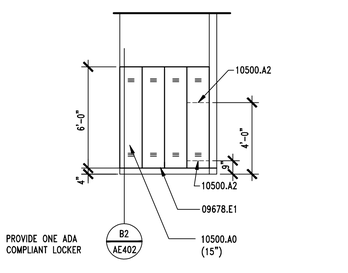
24" 18" 12" 6" 0 1' 2' 4'



C2 | TYP. SHELVING ELEVATION

AE402 | REF. AE101 | SCALE: 1/4" = 1'-0"

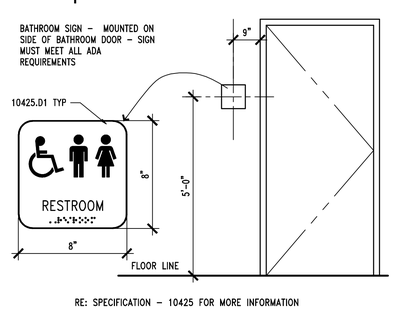
4' 3' 2' 1' 0' 2' 4' 8'



C3 | LOCKER ELEVATION

AE402 | REF. AE101 & AE401 | SCALE: 1/4" = 1'-0"

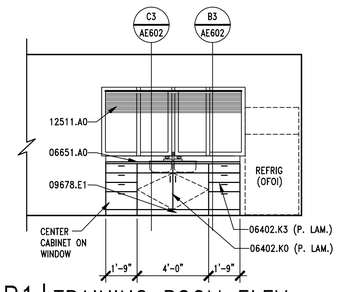
4' 3' 2' 1' 0' 2' 4' 8'



RE: SPECIFICATION - 10425 FOR MORE INFORMATION

C4 | SIGNAGE "D"

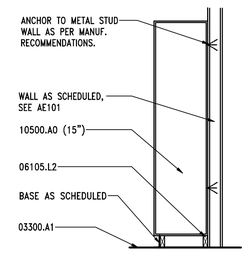
AE402 | REF. AE101 | SCALE: NONE



B1 | TRAINING ROOM ELEV.

AE402 | REF. AE101 | SCALE: 1/4" = 1'-0"

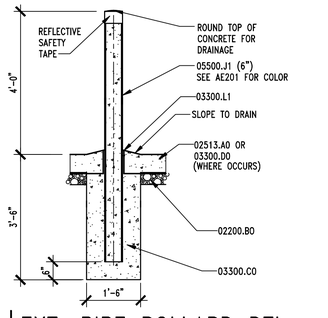
4' 3' 2' 1' 0' 2' 4' 8'



B2 | LOCKER SECTION

AE402 | REF. AE101 | SCALE: 1/2" = 1'-0"

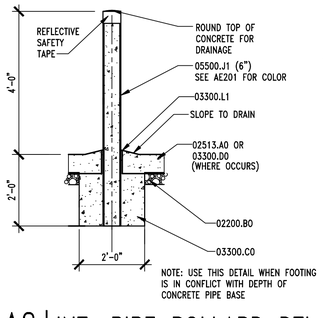
24" 18" 12" 6" 0 1' 2' 4'



A1 | EXT. PIPE BOLLARD DTL.

AE402 | REF. AE101 & AE301 | SCALE: 1/2" = 1'-0"

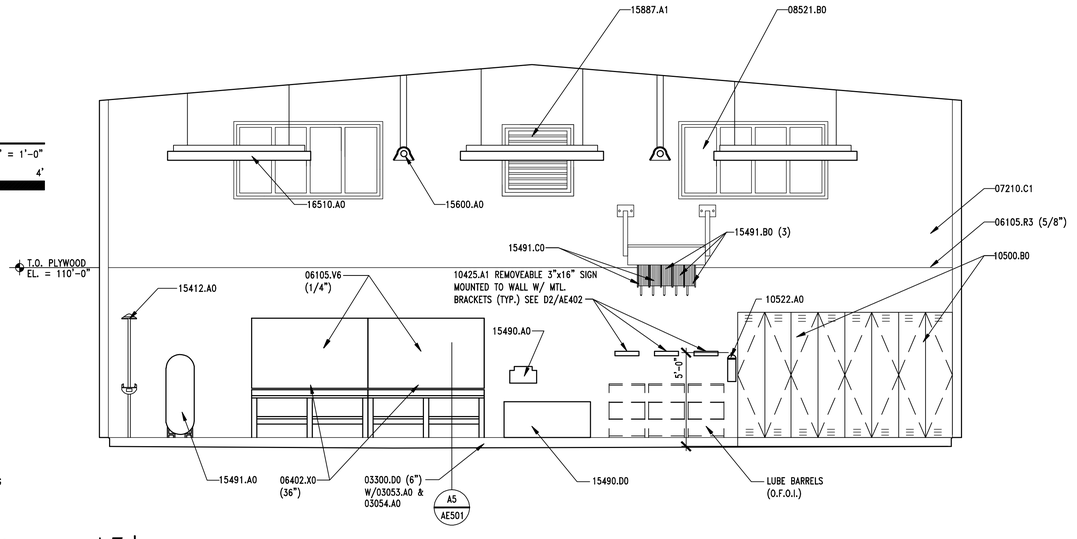
24" 18" 12" 6" 0 1' 2' 4'



A2 | INT. PIPE BOLLARD DTL.

AE402 | REF. AE101 & AE301 | SCALE: 1/2" = 1'-0"

24" 18" 12" 6" 0 1' 2' 4'



A3 | MAINTENANCE BAY INTERIOR ELEVATION

AE402 | REF. AE402 | SCALE: 1/4" = 1' -0"

4' 3' 2' 1' 0' 2' 4' 8'

KEYNOTES

02200.B0	GRAVEL BASE
02513.A0	ASPHALT CONCRETE PAVING
03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.A1	CONCRETE SLAB-ON-GRADE - SEE STRUCTURAL
03300.D0	CONCRETE PAD (SIZE)
03300.L1	30# FELT
03300.N0	CONCRETE CURB (HEIGHT)
05220.A2	STEEL JOISTS - SEE STRUCTURAL - PRIMED AND PAINTED
05500.J1	PIPE BOLLARD (DIAMETER) - GALV. & PAINTED
06105.L2	BLOCKING AS REQUIRED
06105.R3	PLYWOOD PANEL (THICKNESS) - MECHANICALLY FASTENED THROUGH INSULATION INTO CMU WALL
06105.V6	PEGBOARD (THICKNESS)
06402.H1	ADJUSTABLE SHELVES (FINISH)
06402.K0	BASE UNIT (FINISH)
06402.K3	BASE UNIT W/DRAWERS (FINISH)
06402.X0	WORKBENCH (DEPTH)
06651.B0	SOLID SURFACE COUNTER TOP
07210.C1	RIGID INSULATION (CONTINUOUSLY ADHERED TO CMU) W/FOIL FACED VAPOR BARRIER TOWARDS INTERIOR (R-VALUE)
08521.B0	FIXED VINYL WINDOW
09678.E1	RUBBER BASE (SIZE)
10425.A0	ROOM SIGNAGE
10425.A1	OIL SIGNAGE
10425.B1	WELDING SIGNAGE
10425.C1	ACCESSIBLE SIGNAGE
10425.D1	ACCESSIBLE/UNISEX RESTROOM SIGNAGE
10500.A0	METAL LOCKERS (WIDTH)
10500.A1	ADA COMPLIANT METAL LOCKER
10500.A2	ADA COMPLIANT SHELF
10500.B0	METAL STORAGE CABINETS
10522.A0	FIRE EXTINGUISHER
12511.A0	HORIZONTAL LOUVER BLINDS
15412.A0	EMERGENCY SHOWER & EYE WASH
15490.A0	WASTE OIL PUMP
15490.D0	280 GAL. DOUBLE WALL WASTE OIL TANK
15491.A0	AIR COMPRESSOR - O.F.C.I.
15491.B0	OVERHEAD LUBE REELS
15491.C0	OVERHEAD HOSE REELS
15600.A0	NATURAL GAS RADIANT HEATING SYSTEM
15887.A1	LOUVER WITH BIRD SCREEN - SEE MECHANICAL
16510.A0	INTERIOR LIGHTS

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. PROVIDE QUANTITY OF ADJUSTABLE SHELVING AS SHOWN IN ELEVATION.

5. SEE SHEET AE602 FOR PLASTIC LAMINATE COLORS.

6. PROVIDE 03053.A0 AT ALL CONCRETE CURBS, PIERS, SLABS, STEM WALL ETC. U.N.O.

7. PROVIDE 03054.A0 OVER ENTIRE FLOOR SLAB AT ROOMS 101 AND 104.

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL

RALPH M. STANISLAW
05-310818-0301
STATE OF UTAH
LICENSED ARCHITECT

ISSUE

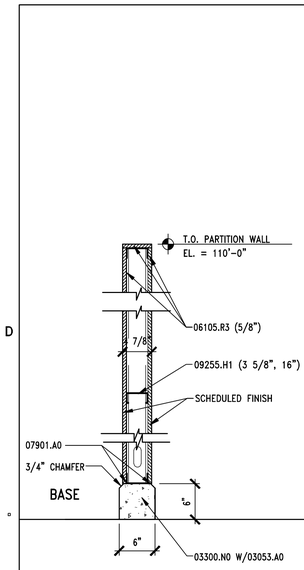
MARK	DATE	DESCRIPTION
	2-09	CONSTRUCTION DOCUMENTS
	1-20-09	90% REVIEW SUBMITTAL

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	FEBRUARY, 2009

SHEET TITLE

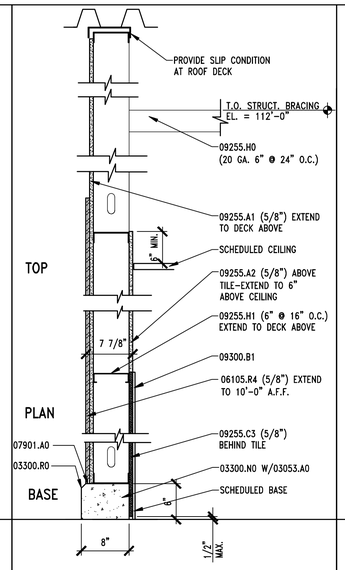
INTERIOR ELEVATIONS AND MISC. DETAILS

AE402



TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
E	AS NOTED	6"	N.R.	---	---

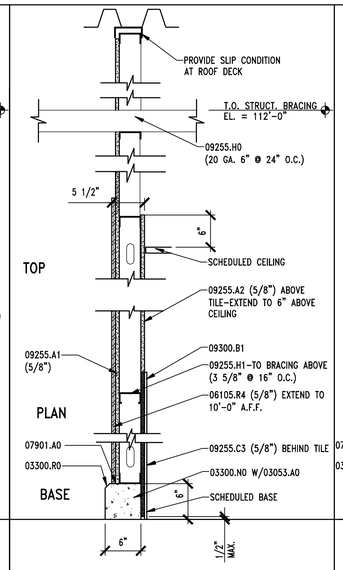
COMMENT



PROVIDE WATER RESISTANT GYPSUM BOARD AT RESTROOM

TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
D	AS NOTED	6"	N.R.	---	---

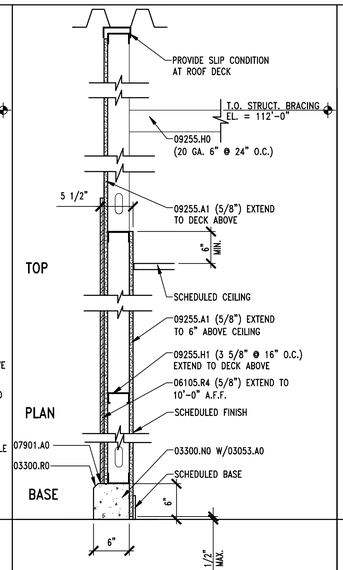
COMMENT



PROVIDE WATER RESISTANT GYPSUM BOARD AT RESTROOM

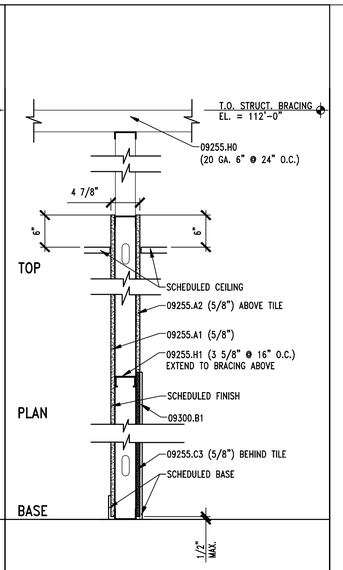
TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
C	AS NOTED	3 5/8"	N.R.	---	---

COMMENT



TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
B	AS NOTED	3-5/8"	N.R.	---	---

COMMENT



PROVIDE WATER RESISTANT GYPSUM BOARD AT RESTROOM

TYPE	OVERALL THICKNESS	STUD/ BLOCK SIZE	FIRE RATING	U.L. LISTING	S.T.C. RATING
A	AS NOTED	3 5/8"	N.R.	---	---

COMMENT

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOBIC TOPICAL SEALER
03300.D0	CONCRETE PAD
03300.H0	FOUNDATION WALL - SEE STRUCTURAL
03300.N0	CONCRETE CURB
03300.R0	3/4" CHAMFER
04200.A2	CMU (SIZE)
04200.D1	CMU LINTEL - SEE STRUCTURAL
04200.R0	MASONRY CONTROL JOINT
05120.D1	TUBE STEEL COLUMN - SEE STRUCTURAL
06105.L2	BLOCKING AS REQUIRED
06105.P1	2X4
06105.P6	4X4
06105.R2	SHEATHING - PLYWOOD (THICKNESS)
06105.R3	PLYWOOD PANEL (THICKNESS) - MECHANICAL FASTENED THROUGH INSULATION INTO CMU WALL
06105.R4	PLYWOOD PANEL (THICKNESS)
06105.V1	EXTERIOR GRADE PLYWOOD (THICKNESS) - PAINTED
06105.V6	PEGBOARD (THICKNESS)
07210.C1	RIGID INSULATION (CONTINUIOUSLY ADHEARED TO CMU) W/FOIL FACED VAPOR BARRIER TOWARDS INTERIOR (R-VALUE)
07410.G0	FLASHING - FINISH TO MATCH LOUVER COLOR
07901.A0	CONTINUOUS SEALANT
08360.A0	HEAVY DUTY OVERHEAD SECTIONAL DOOR
09255.A1	GYPSUM BOARD (THICKNESS)
09255.A2	WATER RESISTANT GYPSUM BOARD (THICKNESS)
09255.C3	CEMENT BOARD (THICKNESS)
09255.H0	METAL STUD
09255.H1	METAL STUDS (SIZE, SPACING)
09255.M2	METAL CORNER BEAD (TYP)
09255.Q0	7/8" METAL FURRING CHANNEL
09255.R2	CHANNEL (SIZE, SPACING)
09255.S1	8 GA. WIRE HANGERS (SPACING)
09255.S2	18 GA. WIRE TIES
09255.S4	BRACING WIRE
09255.S5	VERTICAL WIRE HANGER (SIZE)
09255.U2	CROSS CHANNEL
09255.U3	3/4" CONDUIT COMPRESSION BRACE
09300.B1	WALL TILE - SEE FINISH SCHEDULE
09511.A1	HEAVY DUTY "T" BAR GRID SYSTEM
09511.A2	CEILING SUSPENSION SYSTEM - MAIN RUNNER
09511.A3	CEILING SUSPENSION SYSTEM - CROSS RUNNER
09511.B1	VERTICAL WIRE HANGER (SIZE)
09511.B2	BRACING WIRE (SIZE)
09511.C1	COMPRESSION STRUTS
09511.D1	METAL ANGLE EDGE
09511.E1	LAY IN ACOUSTICAL CEILING PANEL
09511.F1	SPREADER BAR REQUIRED TO KEEP COMPONENTS FROM SPREADING APART
15887.A1	LOUVER WITH BIRD SCREEN - SEE MECHANICAL

GENERAL NOTES

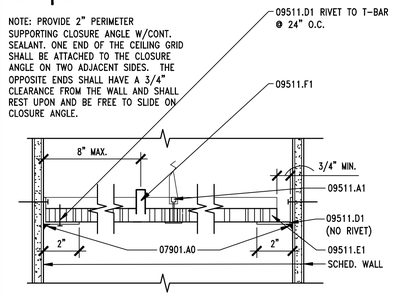
1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

C1 WALL TYPES

AE501 | REF. AE101 | SCALE: 1" = 1'-0"

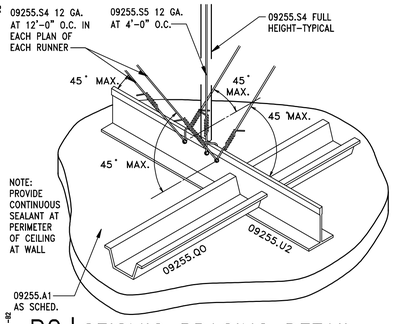


NOTE: PROVIDE 2" PERIMETER SUPPORTING CLOSURE ANGLE W/CONT. SEALANT. ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE ON TWO ADJACENT SIDES. THE OPPOSITE ENDS SHALL HAVE A 3/4" CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON CLOSURE ANGLE.

C3 LAY-IN PANEL EDGE DTL.

AE502 | REF. AE121 | SCALE: 3" = 1'-0"

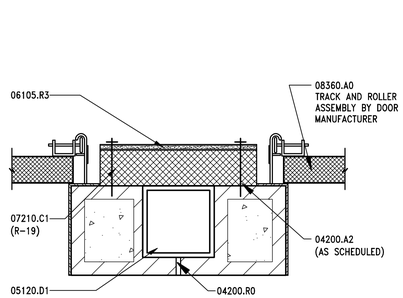
4" 3" 2" 1" 0 2" 4" 8"



NOTE: PROVIDE CONTINUOUS SEALANT AT PERIMETER OF CEILING AT WALL

B2 SEISMIC BRACING DETAIL

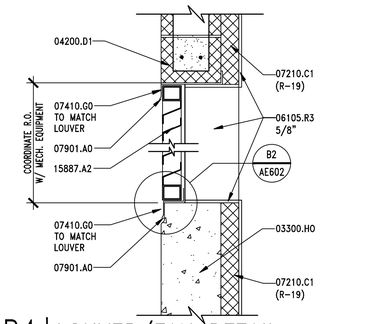
AE501 | REF. AE121 | SCALE: NONE



B3 INSULATION @ COL. DETAIL

AE501 | REF. AE601 | SCALE: 1 1/2" = 1'-0"

8" 6" 4" 2" 0 4" 8" 1'-4"



B4 LOUVER/FAN DETAIL

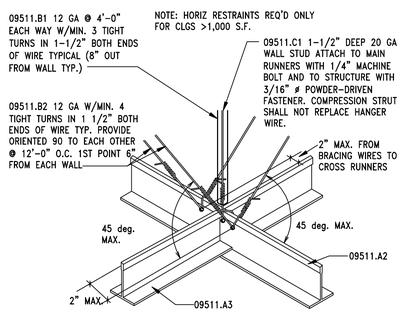
AE501 | REF. AE201 | SCALE: 1" = 1'-0"

12" 9" 6" 3" 0 6" 1' 2'

PROVIDE INTERMEDIATE CEILING EXPANSION JOINT IN CEILINGS >2,500 S.F.

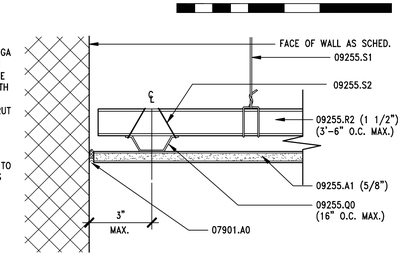
A1 SEISMIC BRACING DETAIL

AE501 | REF. AE121 | SCALE: NO SCALE



A2 SEISMIC BRACING DETAIL

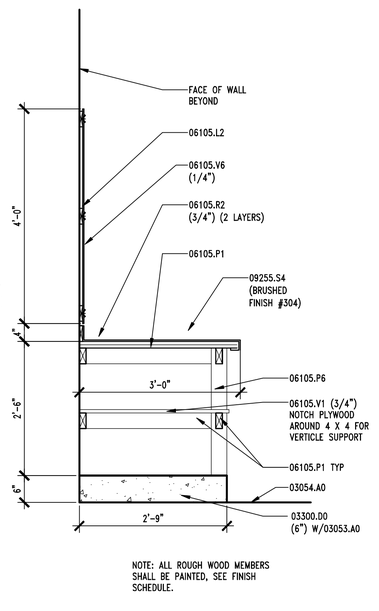
AE501 | REF. AE121, AE502 | SCALE: NO SCALE



A3 CEILING DETAIL

AE501 | REF. AE121 | SCALE: 1/2" = 1'-0"

24" 18" 12" 6" 0 1' 2' 4'



NOTE: ALL ROUGH WOOD MEMBERS SHALL BE PAINTED, SEE FINISH SCHEDULE.

A5 WORK BENCH SECTION

AE501 | REF. AE402 | SCALE: 3/4" = 1'-0"

12" 8" 4" 0 6" 1' 2' 3'

CLIENT

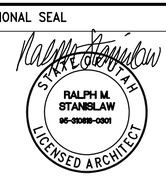
UDOT CONNECTING COMMUNITIES
STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL



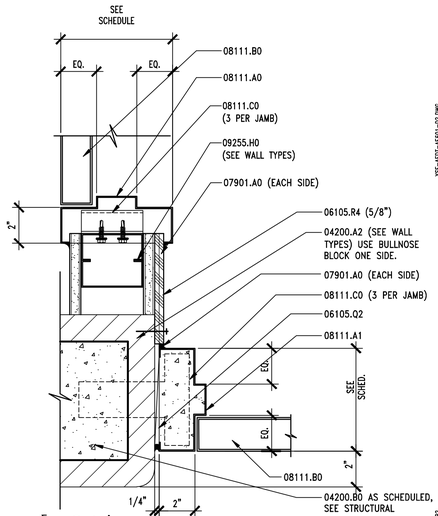
ISSUE		
	2-09	CONSTRUCTION DOCUMENTS
	1-20-09	90% REVIEW SUBMITTAL
MARK	DATE	DESCRIPTION

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2009

SHEET TITLE

WALL TYPES & MISC. DETAILS

AE501

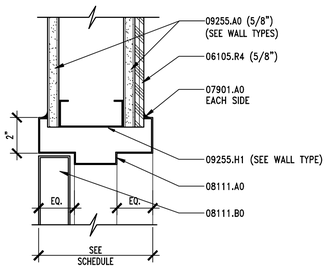


C1 | HOLLOW METAL JAMB DTL.

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-ADIT-AE601-C1

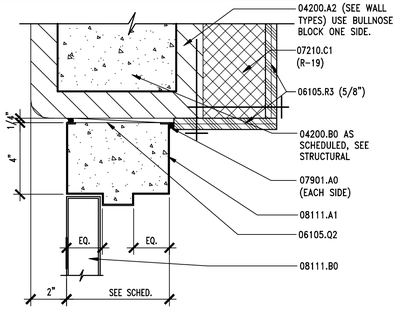


D2 | DOOR HEAD DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-ADIT-AE601-D2.DWG

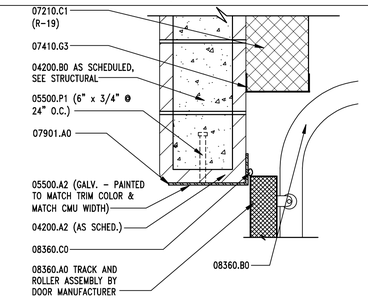


D3 | HOLLOW METAL HEAD DTL.

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-ADIT-AE601-D3



D4 | OVERHEAD DOOR HEAD DTL.

AE601 | REF. AE601 | SCALE: 1 1/2" = 1'-0"

8" 6" 4" 2" 0 4" 8" 1'-4"

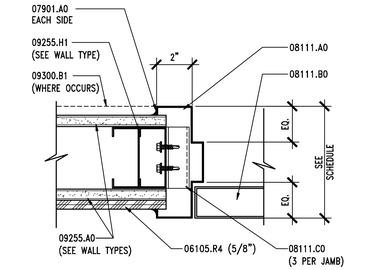
XSF-ADIT-AE601-D4

C1 | HOLLOW METAL JAMB DTL.

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-ADIT-AE601-C1

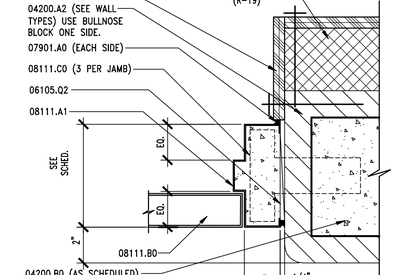


B2 | DOOR JAMB DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-ADIT-AE601-B2

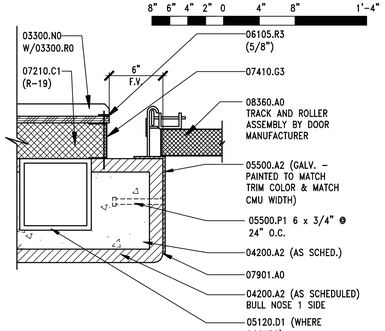


C3 | HOLLOW METAL JAMB DTL.

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-ADIT-AE601-C3

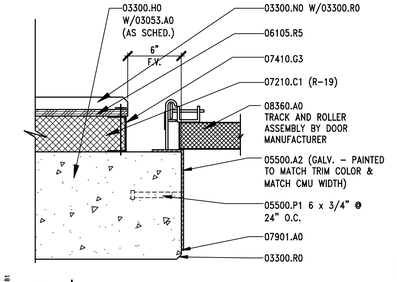


C4 | OVERHEAD DOOR JAMB DTL.

AE601 | REF. AE601 | SCALE: 1 1/2" = 1'-0"

8" 6" 4" 2" 0 4" 8" 1'-4"

XSF-ADIT-AE601-C4

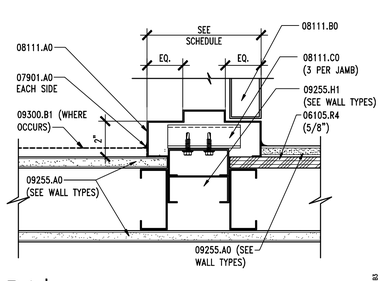


B1 | OVERHEAD DOOR JAMB DTL.

AE601 | REF. AE601 | SCALE: 1 1/2" = 1'-0"

8" 6" 4" 2" 0 4" 8" 1'-4"

XSF-ADIT-AE601-B1

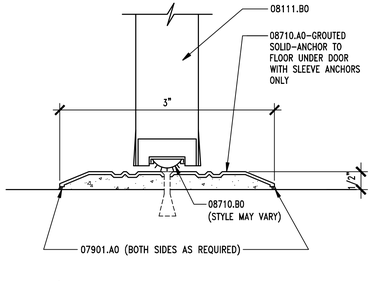


B1 | DOOR JAMB DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

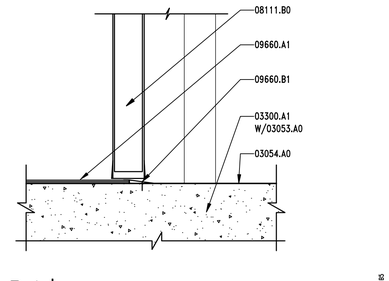
XSF-ADIT-AE601-B1.DWG



B3 | THRESHOLD DETAIL

AE601 | REF. AE601 | SCALE: NONE

XSF-ADIT-AE601-B3

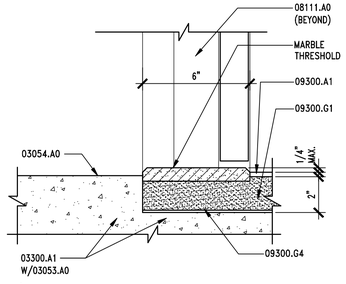


B4 | VCT-CONCRETE TRANSITION

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-ADIT-AE601-B4



B5 | MARBLE THRESHOLD DETAIL

AE601 | REF. AE601 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-ADIT-AE601-B5

KEYNOTES

03053.A0	CONCRETE WATER PROOFING ADMIXTURE
03054.A0	OLIOPHOPIC TOPICAL SEALER
03300.A1	CONCRETE SLAB-ON-GRADE - SEE STRUCTURAL
03300.H0	FOUNDATION WALL - SEE STRUCTURAL
03300.N0	CONCRETE CURB
03300.R0	3/4" CHAMFER
04200.A2	CMU (SIZE)
04200.B0	GROUT SOLID
05120.D1	TUBE STEEL COLUMN - SEE STRUCTURAL
05500.A2	STEEL ANGLE (SIZE) - GALVANIZED
05500.P1	ANCHOR BOLT (DIAMETER & SPACING)
06105.Q2	SHIM AS REQUIRED
06105.R3	PLYWOOD PANEL (THICKNESS) - MECHANICALLY FASTENED THROUGH INSULATION INTO CMU WALL
06105.R4	PLYWOOD PANEL (THICKNESS)
07210.C1	RIGID INSULATION (CONTINUOUSLY ADHERED TO CMU) W/FOIL FACED VAPOR BARRIER TOWARDS INTERIOR (R-VALUE)
07410.G3	FLASHING AT WINDOW HEAD, JAMB AND SILL
07901.A0	CONT. SEALANT
08111.A0	PRESSED METAL FRAME
08111.A1	GROUT FILLED PRESSED METAL FRAME
08111.B0	HOLLOW METAL DOOR
08111.C0	JAMB ANCHOR
08360.A0	HEAVY DUTY OVERHEAD SECTIONAL DOOR
08360.B0	3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
08360.C0	WEATHER-STRIPPING
08710.A0	THRESHOLD
08710.B0	DOOR SWEEP
09255.A0	GYPSUM BOARD
09255.A1	GYPSUM BOARD (THICKNESS)
09255.H0	METAL STUD
09255.H1	METAL STUDS (SIZE, SPACING)
09300.A1	FLOOR TILE - SEE FINISH SCHED.
09300.B1	WALL TILE - SEE FINISH SCHED.
09300.G1	MORTAR BED
09300.G4	WATERPROOF MEMBRANE
09660.A1	VINYL COMPOSITE TILE
09660.B1	VINYL TRANSITION STRIP

GENERAL NOTES

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2. DO NOT SCALE DRAWINGS.

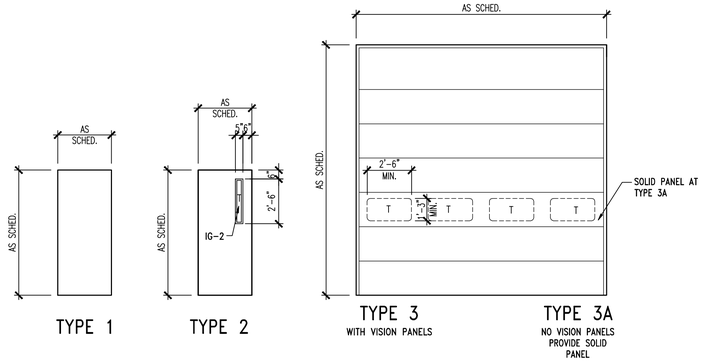
3. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. SEE SHEET AE602 FOR GLAZING TYPES.

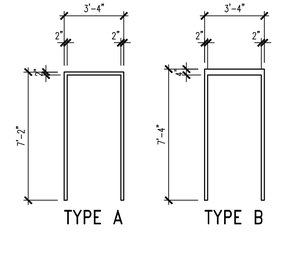
DOOR SCHEDULE

DOOR #	ROOM #	DOORS TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	GLASS	FRAMES TYPE	MATERIAL	THICKNESS	FINISH	DETAILS HEAD	JAMB	THRESHHOLD	LABEL	HARDWARE	REMARKS
D101A	101	2	3'-0"	7'-0"	1 3/4"	HM	PT	T	B	HM	6"	PT	D3/AE601	C1 & C3/AE601	B3/AE601	-	1	INSULATED
D101B	101	3	14'-0"	14'-0"	-	ST	P. FIN.	T	-	ST	-	G & PT	D4/AE601	B1 & C4/AE601	-	-	5	SECTIONAL INSULATED DOOR
D101C	101	3	14'-0"	14'-0"	-	ST	P. FIN.	T	-	ST	-	G & PT	D4/AE601	B1 & C4/AE601	-	-	5	SECTIONAL INSULATED DOOR
D101D	101	3	14'-0"	14'-0"	-	ST	P. FIN.	T	-	ST	-	G & PT	D4/AE601	B1 & C4/AE601	-	-	5	SECTIONAL INSULATED DOOR
D101E	101	3	14'-0"	14'-0"	-	ST	P. FIN.	T	-	ST	-	G & PT	D4/AE601	B1 & C4/AE601	-	-	5	SECTIONAL INSULATED DOOR
D101F	101	3A	14'-0"	14'-0"	-	ST	P. FIN.	T	-	ST	-	G & PT	D4/AE601	B1 & C4/AE601	-	-	5	SECTIONAL INSULATED DOOR
D102A	102	2	3'-0"	7'-0"	1 3/4"	HM	PT	T	A	HM	6"	PT	D2/AE601	C1 & C2/AE601	B4/AE601	-	2	
D103A	103	1	3'-0"	7'-0"	1 3/4"	HM	PT	-	A	HM	6"	PT	D2/AE601	B2 & C2/AE601	B5/AE601	-	3	
D104A	104	3A	10'-0"	10'-0"	-	ST	P. FIN.	T	-	ST	-	G & PT	D4/AE601	B1 & C4/AE601	-	-	5	SECTIONAL INSULATED DOOR

G = GALVANIZED HM = HOLLOW METAL P. FIN. = PRE-FINISHED T = TEMPERED ST = STEEL PT = PAINTED



DOOR TYPES



DOOR FRAME TYPES

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL

STATE OF UTAH
RALPH M. STANISLAW
95-310818-0301
LICENSED ARCHITECT

ISSUE

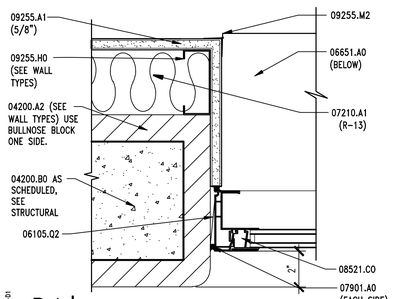
MARK	DATE	DESCRIPTION
	2-09	CONSTRUCTION DOCUMENTS
	1-20-09	90% REVIEW SUBMITTAL

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2009

SHEET TITLE

DOOR SCHEDULES AND DETAILS

AE601

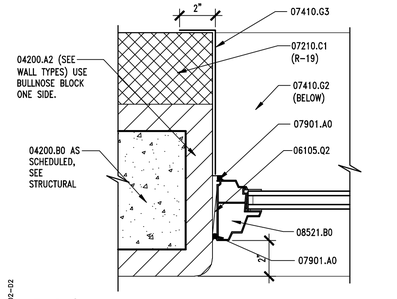


D1 | WINDOW JAMB DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-AE01-AE602-D1

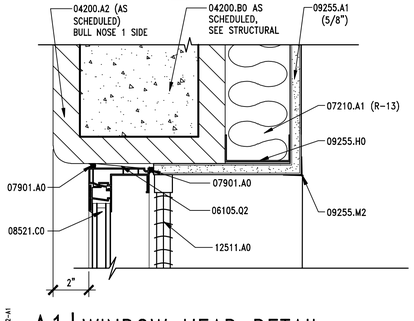


D2 | WINDOW JAMB DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-AE01-AE602-D2

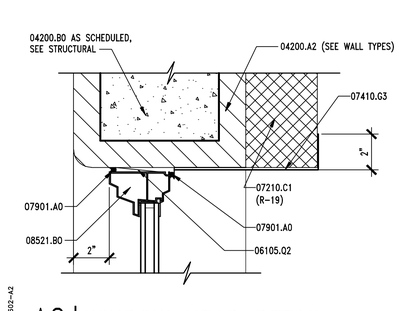


C1 | WINDOW SILL DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-AE01-AE602-C1



C2 | WINDOW SILL DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-AE01-AE602-C2

B1 | WINDOW SILL DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-AE01-AE602-B1

A1 | WINDOW HEAD DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

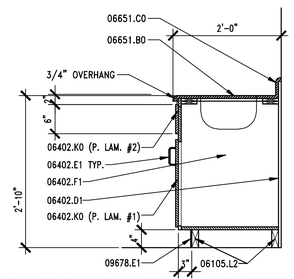
XSF-AE01-AE602-A1

A2 | WINDOW HEAD DETAIL

AE602 | REF. AE602 | SCALE: 3" = 1'-0"

4" 3" 2" 1" 0 2" 4" 8"

XSF-AE01-AE602-A2

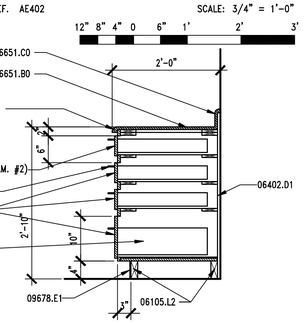


C3 | BASE CABINET SECTION

AE602 | REF. AE402 | SCALE: 3/4" = 1'-0"

12" 8" 4" 0 6" 1' 2' 3'

XSF-AE01-AE602-C3

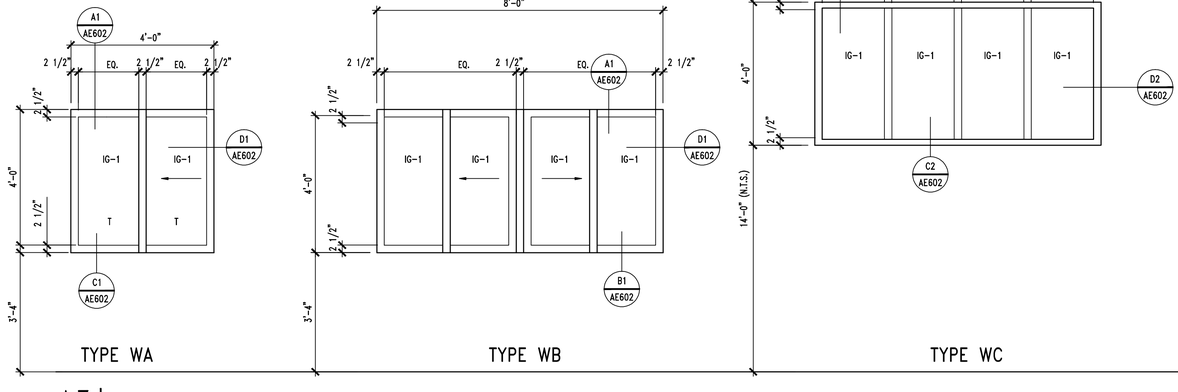


B3 | BASE CABINET SECTION

AE602 | REF. AE402 | SCALE: 3/4" = 1'-0"

12" 8" 4" 0 6" 1' 2' 3'

XSF-AE01-AE602-B3



A3 | WINDOW TYPES

AE602 | REF. AE101 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0' 2' 4' 8'

ROOM FINISH SCHEDULE

ROOM NAME & NUMBER		FLOOR	BASE	WALLS				DOOR/FRAMES	P. LAM.	CEILING	TOILET PART.	SOLID SURFACE	REMARKS
				WEST	EAST	NORTH	SOUTH						
101	MAINTENANCE BAY	F1	–	W1 & W2	W1 & W4	W1 & W4	W1 & W2	D1 & D2	–	C3			PAINT ALL EXPOSED WOOD @ WORKBENCH W1 OR EQUAL
102	OFFICE	F2	B1	W2	W2	W2	W2	D1	–	C2	P1 & P2	SS1	PAINT ALL STRUCTURE ABOVE OFFICE CEILING
103	RESTROOM	F3	B2	W2 & W3	W2 & W3	W2 & W3	W2 & W3	D1	–	C1	T1		USE BULLNOSE AT TOP OF WAINSCOT – PAINT ALL STRUCTURE ABOVE R.R. CEILING

ROOM FINISH LEGEND

FLOOR

F1. CONCRETE FLOOR, WITH WATER PROOF ADD MIXTURE & OLIOPHOBIC TOPICAL SEALER.

F2. 12" x 12" VINYL COMPOSITION TILE – ARMSTRONG #51858–SANDRIFT WHITE OR EQUAL

F3. 2" x 2" CERAMIC TILE – DALTILE, #0175 KEYSTONES, ELEMENTAL TAN SPECKLE W/MAPEI GROUT #05 – CHAMOIS OR EQUAL

BASE

B1. 4" RUBBER BASE – JOHNSONITE #49 – BEIGE OR EQUAL

B2. 2" x 2" COVED TILE BUILT UP BASE – DALTILE, #0175 – KEYSTONES, ELEMENTAL TAN SPECKLE W/MAPEI GROUT #05 – CHAMOIS OR EQUAL

WALL

W1. PLYWOOD PANEL: C–C GRADE PLYWOOD – PAINTED BENJAMIN MOORE – NAVAJO WHITE OR EQUAL

W2. GYPSUM BOARD – PAINTED BENJAMIN MOORE – NAVAJO WHITE OR EQUAL

W3. 4 1/4" x 4 1/4" CERAMIC WALL TILE – DALTILE #X735 – ALMOND – MATTE FINISH W/1/2" x 6" FLAT TOP LINER – DALTILE #D144 – ARTISAN BROWN – SEMI–GLOSS FINISH OR EQUAL W/MAPEI GROUT #39 – IVORY OR EQUAL

W4. FOIL FACED INSULATION ABOVE PLYWOOD

W5. CMU – COLOR A BY ARCHITECT

DOOR & FRAMES

D1. PAINTED – ICI #427 – DEERFIELD OR EQUAL

D2. MATCH EXTERIOR COLOR SCHEDULE – SEE SHEET AE201

PLASTIC LAMINATE

P1. WILSONART #4781–60 SUNSTONE OR EQUAL

P2. WILSONART #4794–60 WINDSWEPT BRONZE OR EQUAL

SOLID SURFACE

SS1. SOLID SURFACE COUNTER TOP – COLOR TO BE SELECTED BY ARCHITECT.

CEILING

C1. GYPSUM BOARD – PAINTED BENJAMIN MOORE – NAVAJO WHITE OR EQUAL

C2. ARMSTRONG ULTIMA TEGULAR WITH BEVELED EDGE FINE TEXTURE WITH HUMIGUARD PLUS COLOR: WHITE – OR EQUAL

C3. EXPOSED STRUCTURE – PAINTED BENJAMIN MOORE – NAVAJO WHITE OR EQUAL.

TOILET PARTITION

T1. SOLID PHENOLIC PARTITIONS WILSON ART #4794.60 WINDSWEPT BRONZE OR EQUAL

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS

3. ALL FLASHING TO BE PAINTED OR PRE–FINISHED TO MATCH WINDOW FRAMES

4. SEE SPECIFICATIONS FOR ALL GLAZING TYPES.

5. ALL INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS C: FLAME SPREAD 76–200; SMOKE–DEVELOPED 0–450. EXCEPTION: MATERIALS, OTHER THAN TEXTILES, TESTED IN ACCORDANCE WITH SECTION 803.2.

6. AS PER SPECIFICATION SECTION 09900.1.2.B CONTRACTOR TO FIELD PAINT ALL EXPOSED BARE AND COVERED PIPES, DUCTS (INCLUDING COLOR CODING), HANGERS, EXPOSED STEEL, IRON WORK, AND PRIMED METAL SURFACES OR MECHANICAL AND ELECTRICAL EQUIPMENT.

KEYNOTES

04200.A2	CMU (SIZE)
04200.B0	GROUT SOLID
06105.L2	BLOCKING AS REQUIRED
06105.Q2	SHIM AS REQUIRED
06402.D1	P. LAM ON 1/4" PLYWOOD BACKING (FINISH)
06402.E1	WIRE PULL
06402.F1	PROVIDE WHITE MELAMINE FINISH @ ALL INTERIOR SURFACES
06402.K0	BASE UNIT (FINISH)
06402.K3	BASE UNIT W/DRAWERS (FINISH)
06651.A0	1/2" WHITE SOLID SURFACE WINDOW SILL
06651.B0	SOLID SURFACE COUNTER TOP
06651.C0	SOLID SURFACE BACKSPLASH
07210.A1	BATT INSULATION (R–VALUE)
07210.C1	RIGID INSULATION (CONTINUOUSLY ADHERED TO CMU) W/FOIL FACED VAPOR BARRIER TOWARDS INTERIOR (R–VALUE)
07410.G3	FLASHIN AT WINDOW JAMB, HEAD AND SILL
07901.A0	CONT. SEALANT
08521.B0	FIXED VINYL WINDOW
08521.C0	VINYL WINDOW W/SLIDING GLASS PANEL
09255.A1	GYPSUM BOARD (THICKNESS)
09255.H0	METAL STUD
09255.M2	METAL CORNER BEAD (TYP)
09678.E1	RUBBER BASE (SIZE)
12511.A0	HORIZONTAL LOUVER BLINDS

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt Lake City, UT 84115
P:(801) 961–7070
F:(801) 961–7373

CONSULTANTS

PROFESSIONAL SEAL

RALPH M. STANISLAW
05-310818-0301
STATE OF UTAH
LICENSED ARCHITECT

ISSUE

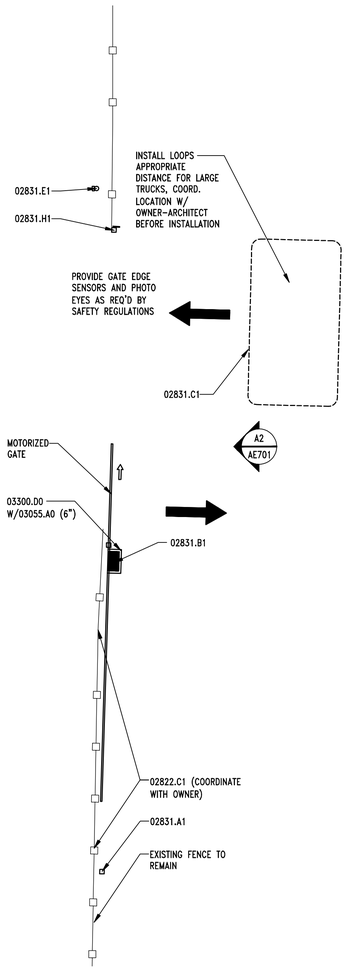
MARK	DATE	DESCRIPTION
	2–09	CONSTRUCTION DOCUMENTS
	1–20–09	90% REVIEW SUBMITTAL

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	FEBRUARY, 2009

SHEET TITLE

WINDOW TYPES, DETAILS, FINISH SCHEDULE AND MISC. DETAILS

AE602

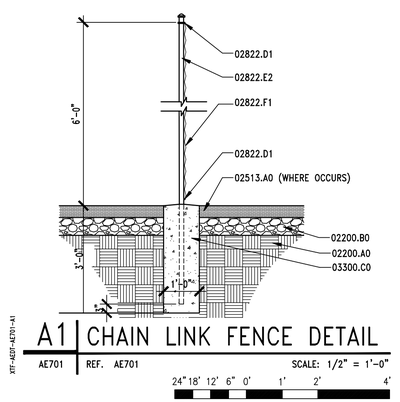


B1 | GATE PLAN

AE701 | REF. | SCALE: 1/8" = 1'-0"

8' 6' 4' 2' 0' 4' 8' 16'

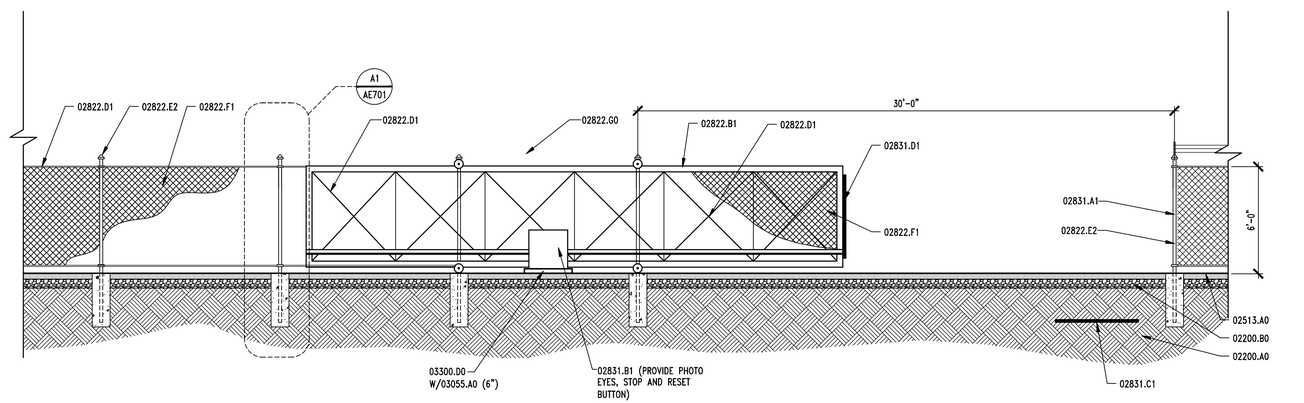
NORTH



A1 | CHAIN LINK FENCE DETAIL

AE701 | REF. AE701 | SCALE: 1/2" = 1'-0"

24" 18" 12" 6" 0" 1' 2' 4'



A2 | MOTORIZED GATE ELEVATION

AE701 | REF. AE701 | SCALE: 1/4" = 1'-0"

4' 3' 2' 1' 0' 2' 4' 8'

XFT-AE01-AE701-A1

KEYNOTES

02200.A0	COMPACTED FILL
02200.B0	GRAVEL BASE
02513.A0	ASPHALT CONCRETE PAVING
02822.B1	2" # GATE FRAME
02822.C1	NEW 6' HIGH CHAIN LINK FENCE - SEE CIVIL
02822.D1	TENSION TIE WIRE
02822.E2	LINE POSTS @ 8'-0" O.C.
02822.F1	2" DIAMOND MESH STEEL FABRIC
02200.G0	
02831.A1	PHYSICAL TRAVEL STOP
02831.B1	HYDRAULIC SLIDE GATE OPERATOR W/AUDIO ALARM
02831.C1	UNDERGROUND OBSTRUCTION LOOP
02831.D1	PROVIDE GATE SENSORS
02831.E1	KEY PAD ACCESS ON PEDESTAL
02831.H1	GATE RECEIVER POCKET
03055.A0	SALT AND WATER BARRIER
03300.C0	FOOTING
03300.D0	CONCRETE PAD

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE ELECTRICAL DRAWINGS FOR ALL POWER & CONTROL INFORMATION.

4. CONTRACTOR TO PROVIDE ALL REQUIRED CODE & SAFETY DEVICES AS REQIRED BY GATE MANUFACTURER.

CLIENT

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STATION #4435A
160 EAST HIGHWAY 96
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
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DRAWN BY:	A. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	FEBRUARY, 2009

SHEET TITLE

MOTORIZED GATE PLAN & ELEVATIONS

AE701

GENERAL STRUCTURAL NOTES

GENERAL

1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
2. Typical details and sections shall apply where specific details are not shown.
3. The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any effected elements.
4. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
5. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
6. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
7. The contractor shall provide adequate shoring and bracing as required for his method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the roof system is completed.
8. Site observations by BHB Consulting Engineers, P.C.'s field representative shall not be construed as approval of construction procedures nor special inspection.
9. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical drawings.
10. Review of shop drawing submittals by BHB Consulting Engineers, P.C. is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
11. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
12. Only an authorized representative of BHB Consulting Engineers, P.C. may make changes to these contract drawings. BHB Consulting Engineers, P.C. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers, P.C.

BASIS OF DESIGN

1. Governing Building Code — International Building Code 2006
2. Roof Snow Load
   a. Ground Snow Load — P_g = 164 psf
   b. Snow Importance Factor — I_s = 1.0
   c. Snow Exposure Coefficient — C_e = 1.0
   d. Thermal Exposure Coefficient — C_t = 1.0
   e. Roof Snow Load — $P_f = 0.7 * C_e * C_t * I_s * P_g$ = 115 psf plus Snow Drift
3. Seismic Loads
   a. Short Period Mapped Spectral Acceleration — S_S = 0.651
   b. Soil Site Class — D
   c. Short Period Site Coefficient — F_a = 1.279
   d. 5% Damped Design Spectral Response Acceleration — $S_{DS} = 2/3 * F_a * S_S$ = 0.555
   e. Seismic Importance Factor — I_e = 1.00
   f. Response Modification Coefficient — R = 5.0
   g. Basic Seismic-Force-Resisting System — Masonry shear walls
   h. Seismic Response Coefficient — $C_s = S_{DS} * I_e / R$
   i. W — Seismic Dead Loads of Structure
   j. Building Seismic Design Category — D
   k. System Overstrength Factor — 2.5
   l. Deflection Amplification Factor — 3.5
   m. Base Shear — V= C_S * W = 0.111* W (Strength Design)
5. Wind Loads
   a. Wind Velocity (3 Second Gust) — 90 mph
   b. Exposure Type — C
   c. Wind Importance Factor — 1.00

FOUNDATION

1. Soils Report by PEPG Engineering, L.L.C., dated December 22, 2008.
2. Soil Bearing Pressure: 1,950 psf, on Imported Compacted Structural Fill.
3. Frost Protection: 36 inches minimum.
4. Lateral Soil Pressure Fluid Equivalent Density.
   a. Active ..... 35 pcf (retaining walls)
   b. At Rest ..... 55 pcf (rigid foundation walls)
   c. Passive ..... 300 pcf
5. Coefficient of Friction 0.4

EARTHWORK

1. All footings shall bear on imported compacted structural fill extending down to suitable natural material. See detail A2/SB501.
2. Scarify the exposed natural soil in the bottom of the excavation, moisture condition the native soil and re-compact.
3. Consult the project specifications and soils report for further earthwork requirements.
4. Slab on grade shall bear on 9 inches of structural fill capped with 4 inches of gravel.

CONCRETE

1. Materials, unless noted otherwise:
   a. Normal weight aggregates — ASTM C 33
   b. Reinforcing Steel — ASTM 615 Grade 60 (Fy = 60 ksi) Use Grade 40 (Fy = 40 ksi) for field bent dowels with spacings indicated reduced by 1/3.
   c. Deformed Bar Anchors (DBA) — ASTM A496
   d. Headed Stud Anchors (HSA) — ASTM A108
   e. Anchor Rods
      Typical, uno — ASTM F1554, Grade 36, with ASTM A563 heavy hex nuts and hardened washers Grade A

      Admixtures:
      i. Air-entraining admixtures comply with ASTM C 260 (when used).
      ii Calcium chloride shall not be added to the concrete mix.
   f. Type I/II cement complying with ASTM C-150 shall be used for all concrete.
   g. The water/cement ratios shall meet the requirements of ACI 318.
   h. Provide air entraining as recommended by ACI 318.
   i. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
2. Compressive strengths of concrete at 28 days shall be as follows:
   a. Footings ..... 4,500 psi
   b. Interior Slabs on Grade ..... 3,000 psi
   c. Walls ..... 4,500 psi
   d. All Site Concrete ..... 4,500 psi
3. Only one grade or type of concrete shall be poured on the site at any given time.
4. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
   a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
5. Reinforcement shall have the following concrete cover:
   Cast-in-place Concrete: ..... Clear Cover
   a. Cast against and permanently exposed to earth ..... 3"
   b. Formed concrete exposed to earth or weather:
      #6 thru #18 bars ..... 2"
      #5 and smaller bars ..... 1-1/2"
   c. Concrete not exposed to weather or in contact with ground:
      Slabs, Walls, Joists; #11 bars and smaller ..... 3/4"
      Beams, Columns: Primary Reinf. Ties, Stirrups, Spirals ..... 1-1/2"
6. Construction Joints and Control Joints:
   a. Provide a formed and beveled 2 x 4 x continuous keyway in all horizontal and vertical construction joints including between top of footing and foundation walls, unless noted otherwise. In addition, all joints shall be intentionally roughened to a full amplitude of approximately 1/4 inch.
   b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by:
      i. Saw cut a depth of 1/4 the thickness of the slab
      ii. Tooled joints a depth of 1/4 the thickness of the slab
   c. Install construction or control joints in slabs on grade at a spacing not to exceed 30 times the slab thickness in any direction, unless noted otherwise. Construction joints shall not exceed a distance of 125'-0" o.c. in any direction.
8. Construction
   a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars prior to placing concrete. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
   b. Concrete to be mechanically consolidated during placement per ACI standards.
   c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
   d. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
   e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping.
   f. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.
9. Detailing:
   a. Lap splice lengths shall be detailed to comply with the "Concrete Reinforcing Bar Lap Splice Schedule" on sheet SB601. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all International Building Code requirements. Use "Cadweld", "Lenton" Standard Couplers, "Bar-Lock" or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
   b. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
   c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48 inches.
   d. Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing.
   e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90 degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
   f. Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90-degree standard hook plus a 6 bar diameter extension. Horizontal wall reinforcing shall be continuous through construction and control joints.

EPOXY

1. Epoxy shall be "HIT RE 500-SD" by Hilti Corporation, ITW Redhead Epcon G5 or SET-XP by Simpson Strong Tie for concrete.
2. Epoxy shall be "HIT HY 150 MAX" by Hilti Corporation or "SET" by Simpson Strong Tie for Masonry.
3. All drilled holes for bars or anchors rods 1" in diameter and smaller shall be 1/8 inch larger in diameter than the bar of anchor rod being installed. All drilled holes for bars or anchors rods greater than 1" in diameter shall be 1/4 inch larger in diameter than the bar of anchor rod being installed.
4. After drilling the proper size hole, clean the walls and bottom of the drilled hole of all dust and debris using a nylon brush in conjunction with oil free compressed air. The hole shall be free of dust, debris and standing water.
5. Follow all of the manufacturer's recommendations for epoxy installation.

MASONRY

1. Materials, unless noted otherwise:
   a. Concrete Masonry Units (CMU): Lightweight Grade N, Type 1 (minimum unit strength of 2800 psi). f'_m = 2000 psi
   b. Mortar: Use Type "S" 1800 psi minimum compressive
   c. Grout shall attain a minimum compressive strength of 2800 psi at 28 days.
   d. Reinforcing Steel — ASTM 615 Grade 60 (Fy = 60 ksi)
   e. Deformed Bar Anchors (DBA) — ASTM A496
   f. Headed Stud Anchors (HSA) — ASTM A108
   g. Anchor Rods — ASTM F1554, Grade 36,with ASTM A563 heavy hex nuts hardened washers
2. Reinforcement shall have the following cover:
   a. reinforcement shall have a minimum coverage of one bar diameter over all the bars, but not less than 3/4". When masonry is exposed to soil, minimum coverage shall be 1.5".
3. Construction Requirements:
   a. All units shall be laid with full mortar beds on the face shells. All head joints shall be filled solidly with mortar for a distance in from the face of the units not less than the thickness of the longitudinal face shells. Cells which are to be grouted shall have full head joints.
   b. Masonry walls, beams and columns shall be constructed with running bond, unless noted otherwise.
   c. All cells containing reinforcement, embeds, anchor bolts, etc. shall be filled solid with grout. Grout shall be placed by mechanical vibration during placing and re-vibrated after excess moisture has been absorbed but before workability is lost. Rodding of grout is not allowed.
   d. Where walls are not grouted solid, each grout pour shall terminate flush with the top of the uppermost unit except at cells with vertical reinforcing where the grout shall be 1-1/2 inches below top of unit to provide construction key.
   e. Grout pours shall be limited to 4'-0" unless written approval is obtained from the engineer of record.
   f. All walls below grade shall be grouted solid.
   g. Vertical cells to be filled with grout shall have vertical alignment sufficient to maintain a clear, unobstructed vertical cell measuring not less than 2 inches by 3 inches. All steel reinforcement shall be secured against displacement prior to grouting by wire positioners or other suitable devices at intervals not exceeding 200 bar diameters or 10 feet maximum, or at bar splice locations. Vertical reinforcing shall be located at the center of the wall unless noted otherwise
   h. Reinforcing Bars shall not be welded .Do not substitute reinforcing bars for DBAs or HSAs.
   i. Control Joints: Spacing shall not exceed 40'-0". See architectural drawings for locations.
   j. Grout all beam and joist pockets solid after installation of beams and joists.
   k. Embed channels and plates shall be placed so as to create a flush surface with the face of the wall.
   l. Anchor bolts and headed stud anchors shall be set in a grouted cell. Anchor bolts and headed stud anchors shall have 1" grout surrounding the shank at its penetration. Grout shall be flush with the face or top of the masonry.
4. Detailing Requirement
   a. Lap all masonry reinforcing per "Masonry Reinforcing Lap Schedule" on sheet SB601. All vertical reinforcing shall be doweled to the foundation wall, footing (structure below) and to the structure below with the same size dowel, spacing (and in the same core) as the vertical wall reinforcing above.
   b. Corner Bars: Horizontal reinforcement shall be continuous at all corners and at intersecting walls. Provide corner bars with the required lap splice length.
   c. Wall Openings: For unscheduled openings wider than 24 inches, provide reinforcing on all sides per detail C2/SB501. Also, for all scheduled openings, provide horizontal bar at bottom of opening per detail C2/SB501. Vertical bars shall extend from floor level below to the floor, or roof level above. Horizontal bars for all openings shall extend a minimum of 48 bar diameters beyond the corners of the opening. Where a 48 bar diameter extension is not possible, extend bars as far beyond the opening as possible and terminate the bar(s) with a 90 degree standard ACI hook.
   d. Horizontal wall reinforcing shall be continuous through joining concrete walls, masonry walls, columns, and pilasters. Provide a key between the wall and the column or pilaster. Horizontal wall reinforcing shall be placed inside the column vertical reinforcing.
   e. Horizontal wall reinforcing shall terminate with a hook at edge of openings and at each side of control joints except at floor and roof levels, lintels, beams and at top of parapets. See details B1 & B2/SB502.
   f. All masonry column ties shall terminate with 135 degree hooks plus a 6 bar diameter extension (4" minimum)

STRUCTURAL STEEL

1. Material:
   a. Wide Flanges Section — ASTM A992 (50 ksi)
   b. Other shapes & Plates — ASTM A36 (36 ksi)
   c. Square or Rectangular HSS — ASTM A500 (46 ksi) Grade B
   d. Deformed Bar Anchors (DBA) — ASTM A496
   e. Headed Stud Anchors (HSA) — ASTM A108
   f. Anchor Rods
      Gravity Columns — ASTM F1554, Grade 36, with ASTM A563 heavy hex nuts and hardened washers Grade A
   g. Bolted Connections: — ASTM A325
2. Fabrication and construction shall comply with the latest edition of the following Codes and Standards:
   a. American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary".
   b. AISC "Code of Standard Practice" excluding the following: Section 3.4, Section 4.4, Section 4.4.1,
   c. AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts"
   d. American Welding Society (AWS), Structural Welding Code (specific items do not apply when they conflict with the AISC requirements).
   e. AISC "Seismic Provision for Structural Steel Buildings"
3. Welding
   a. All welding and cutting shall be performed by AWS certified welders.
   b. Use E-70 XX or as noted otherwise. E60 XX may be used for welding steel roof decks.
   c. All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
   d. Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors (HSAs).
   e. Do not weld anchor bolts, including "tack" welds.
   f. Headed Stud Anchors (HSAs) welding and deformed bar anchor welding shall conform to the manufacturer's specifications.
4. Bolted Connections:
   a. Use ASTM A325N bolts for steel to steel connections, as noted herein or as noted on the drawings. A325N bolts shall be used in connections for simple span framing and beam (or girder) to bearing plate connections. Tighten bolts to a snug tight condition. See sheet SF601.
   b. Use hardened washers beneath the turned element of all bolts or nuts. Use hardened beveled washers, to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolt axis. At oversized holes hardened washers or plates shall conform with ASTM F-436 and shall completely cover the slot after installation.
   c. Where a steel to steel beam connection is not shown, provide a standard AISC framed connection for one half the total uniform load capacity of the beam for the span and steel specified.
   d. Bolts, nuts and washers shall not be reused.
5. Provide full-depth web-stiffener plates at each side of all beams at all bearing points. Stiffener plates shall be the thickness called out below unless noted otherwise and shall be welded both sides with fillet welds all around:

FLANGE WIDTH	STIFFENER THICKNESS	WELD SIZE
Less than 8 1/4"	1/4"	3/16"
8 1/4" to 12 1/4"	3/8"	1/4"
12 1/4" to 16 ½"	1/2"	5/16"
16 ½" to 20 ¾"	5/8"	3/8"

OPEN WEB STEEL JOISTS

1. All open web steel joist shall be fabricated and erected in accordance with the latest edition of Steel Joist Institute (SJI), "Standard Specifications and Code of Standard Practice".
2. At the completion of fabrication, the steel joist manufacturer shall submit to the building official a certificate of compliance in accordance with IBC Section 1704.2.2 stating if the work was performed in accordance with approved construction documents and with SJI standard specifications.
3. Joists with slopes greater than 1/2 inch per foot shall be designed to meet or exceed the load capacities, listed in the SJI load tables, of the joist sizes indicated on the framing plan, as if the joists or girders were installed level.
4. Provide special bearing ends to accommodate slopes from sloped joists or sloped bearing conditions.
5. Modifications to any joist, including holes through the top and bottom chords, without the written consent and direction from the manufacturer is not allowed.
6. Open web joist deflection shall be limited to L/240 for total loads and L/360 for live load, unless noted otherwise.
7. Joist bridging shown on plans is for schematic purposes only; actual size, quantity and location of bridging shall be determined by the joist supplier per SJI. Coordinate bridging locations to avoid interference with mechanical, electrical and fire protection equipment and skylights.

METAL DECKING

1. Steel deck shall comply with the latest requirements of the Steel Deck Institute.
2. All deck shall be 3-span continuous minimum. In areas where 3-span conditions are not possible, the contractor shall provide heavier gage deck as required to provide the equivalent loading of the deck under a three span condition.
3. Steel roof deck shall not be used to support loads from plumbing, HVAC ducts, light fixtures, architectural elements or equipment of any kind, unless specifically noted. Light weight suspended acoustical ceilings with a total weight of 50 lbs per attachment may be hung from roof deck. The hangers shall be staggered to distribute the loads over multiple deck flutes.
4. All deck supporting members shall be dry before welding.
5. Clinch seams before welding interlocking seams.

Steel Roof Deck

   a. Steel roof deck shall be 3" deep X 20 gage minimum painted, type "N" wide rib deck with interlocking side seams with the following properties:

	20 Gage	18 Gage
Minimum S (in^3/$_f$) =	0.508	0.731
Minimum I (in^4/$_f$) =	0.837	1.223

   b. Minimum allowable deck diaphragm shear values shall be 450 lb/ft. for a 8'-6" deck span.
   c. Weld steel roof deck to supporting framing members with 3/4" diameter puddle welds at the following spacings (Closer spacing may be used to develop minimum shear requirements.):
      i. 6" o.c. to all supports perpendicular to deck corrugations (4 welds per 24" sheet).
      ii. 6" o.c. to all supports parallel to deck corrugations.
   d. Hilti power driven fasteners are acceptable as an alternative to welds provided the connection meets the diaphragm shear capacity given above. Call Hilti at 800-879-8000 extension 6337 for connection information comparison. If Hilti power driven fasteners are used, the contractor shall submit Hilti's calculations to the Architect/Engineer for review. Also if Hilti power driven fasteners are used, a Hilti representative shall be present before the decking is installed to make sure the installer is properly trained in using the equipment. The Hilti representative shall also make a site visit the day after deck has been started to be installed to verify the power driven fasteners are being installed correctly.
   e. Attach interlocking seams with 1 1/2" long top seam welds at 12" o.c. maximum or with Verco PunchLok System at 18" o.c. maximum, with ASC Delta Grip System at 18" o.c. maximum. Closer spacing may be used to develop minimum shear requirements. A standard button punch can not be used in place of Verco PunchLok, DeltaGrip or Gator-Seismic Shearloc.
   f. Provide a 2-inch minimum bearing and a 4-inch lap at the splice points.

SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance, as required by section 1704 thru 1709 of the IBC, shall be provided by an independent agency employed by the owner unless waived by the building official. The contractor shall coordinate and cooperate with the required inspections. All testing and inspection reports shall be sent within 24 hours of the test to the architect, engineer, building official and contractor for review. Special inspection during fabrication is not required if the fabricator is registered and approved to perform such work with out special inspection. Items requiring special inspection and quality assurance are:

1. Soils (IBC 1704.7)
   a. Prior to placement of the prepared fill, the special inspector shall determine that the site has been prepared in accordance with the soils report.
   b. During placement and compaction of the fill material, the special inspector shall determine that the material being used and the maximum lift thickness comply with the soils report.
   c. The special inspector shall determine that the in-place dry density of the compacted fill material complies with the soils report.
      i. Continuous Footing Backfill: At each compacted backfill layer, at least one test for each 40 linear feet or less of wall length, but no fewer than 2 tests.
      ii. Spot Footing Backfill: Minimum of one compaction test for each lift for each spot footing.
   d. See specifications for further requirements.
2. Concrete placement (IBC Section 1704.4)
   a. Continuous special inspection shall be provided
   b. Cylinders, slump, temperature and air-entrainment shall be done for every 50 cubic yards each day's production if the day's production is less than 50 cubic yards.
   c. Protection of concrete during cold and hot weather
   d. See specifications for further concrete testing requirements.
3. Bolts installed in concrete (IBC Section 1704.4)
   a. All bolts shall be special inspected prior to and during concrete placement.
4. Embeds and Inserts installed in concrete (IBC Section 1704.4)
   a. All embeds and inserts shall be special inspected prior to and during concrete placement.
5. Concrete reinforcing steel placement (IBC Section 1704.4)
   a. All Reinforcing shall be special inspected prior to concrete placement.
6. Structural welding, including steel deck (IBC 1707.2 and 1704.3)
   a. Periodic special inspection of roof decks.
   b. Periodic special inspection of single pass fillet welds less than or equal to 5/16"
   c. Continuous special inspection of single pass fillet welds greater than 5/16" and multi-pass fillet welds.
   d. Continuous special inspection of complete and partial penetration welds.
7. Metal deck using mechanical attachments (IBC 1704.13)
   a. Periodic special inspection of roof decks. Special inspection shall be done to verify size and spacing of shot pins / screws for deck attachment to the supporting structural. Also special inspection shall be done to verify spacing and size of seam attachments.
8. Structural masonry shall have Level 1(Non-Essential Facilities) special inspection per IBC section 1704.5.2
   a. Periodic special inspection shall be performed for
      i Proportions of site-prepared mortar, construction of mortar joints,
      ii Location of reinforcement and connectors,
      iii. Size and location of structural elements
      iv. Type, size and location and placement of anchors
      v. Size, grade and type and placement of reinforcement
      vi. Verify grout space is clean prior to grouting
      vii Protection of masonry during cold and hot weather
   b. Continuous special inspection shall be provided for grout placement and preparation of any required grout specimens, mortar specimens and prisms.
   c. Quality Assurance shall be according to Level 2 quality assurance (Table 1.14.1.2 of ACI 530/ASCE 5/TMS 402).
      i. Prior to construction, a letter of strength certification from the suppliers of the masonry units and grout shall be submitted.
      ii. During construction, the grout and mortar shall be tested for every 5,000 square feet of masonry constructed.
      iii. The contractor has the option of using the "Masonry Prism Test Method" per IBC Section 2105.2.2.2 in lieu of the "Unit Strength Method."
9. Epoxy Anchors (IBC Section 1704.13)
   a. Special inspection shall verify all drilled holes' size and depth prior to installation of epoxy and anchor rod.

SITE OBSERVATIONS BY STRUCTURAL ENGINEER

Site observations, as required by IBC section 1709, shall be done by the Engineer of Record or an approved subordinate at the stages of construction listed below. The contractor shall notify the engineer when he has reached the construction stage listed below and before the work to be observed is covered up, walled in or becomes otherwise hidden from view or in-accessible to any necessary corrections. At the conclusion of the project, the structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiences that to the best of the structural observer's knowledge have not been resolved (See 1709.1).

1. No structural observations are required by code.

DEFERRED SUBMITTALS

For the purpose of this section, deferred submittals are defined as per section 106.3.4.2 of the IBC. Submittal documents for deferred submittal items shall be submitted to the engineer, architect and building official for their review for general conformance with the design of the building. Deferred structural submittals for this project are:

1. Open Web Steel Joists.

LEGEND OF MARKS AND ABREVIATIONS

AB	ANCHOR BOLT(S)	k	KIP(S) = 1000 POUNDS
ABV	ABOVE	KLF	KIPS PER LINEAL FOOT
ALT	ALTERNATE	KSF	KIPS PER SQUARE FOOT
APPROX	APPROXIMATE		
ARCH	ARCHITECTURAL)	LBS	POUNDS
		LF	LINEAL FOOT
BLDG	BUILDING	LLH	LONG LEG HORIZONTAL
BLW	BELOW	LLV	LONG LEG VERTICAL
BM	BEAM	LSV	LONG SIDE VERTICAL
BOT	BOTTOM		
BRG	BEARING	MAS	MASONRY
BTWN	BETWEEN	MAX	MAXIMUM
		MCJ	MASONRY CONTROL JOINT
CC	CENTER-TO CENTER	MC-x	MASONRY COLUMN MARK
C.J.	CONST/CONTROL JOINT	MECH	MECHANICAL
CMU	CONCRETE MASONRY UNIT	MFR	MANUFACTURER
COL	COLUMN	MIN	MINIMUM
CONC	CONCRETE	MISC	MISCELLANEOUS
CONST	CONSTRUCTION	ML-x	MASONRY LINTEL
CP-x	CONCRETE PIER	MW-x	MASONRY WALL
CTR	CENTER		
CW-x	CONCRETE WALL	NIC	NOT IN CONTRACT
		NTS	NOT TO SCALE
DB	DECK BEARING		
DBA	DEFORMED BAR ANCHOR	O.C.	ON CENTER
DBE	DECK BEARING ELEVATION	O.F.	OUTSIDE FACE
DBL	DOUBLE	OPNG	OPENING
DET	DETAIL	OPP	OPPOSITE
DIA	DIAMETER		
DIM	DIMENSION	PCF	POUNDS PER CUBIC FOOT
DN	DOWN	PL	PLATE
DWG	DRAWING	PLF	POUNDS PER LINEAL FOOT
DWL	DOWEL	PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
EA	EACH	PT	POINT
E.F.	EACH FACE		
E.J.	EXPANSION JOINT	REINF	REINFORCING
ELEC	ELECTRICAL	REQD	REQUIRED
ELEV	ELEVATION	R.D.	ROOF DRAIN
EQUIP	EQUIPMENT	RTU	ROOF TOP UNITS
EQ	EQUAL		
E.W.	EACH WAY	SBP-x	STEEL BASE PLATE MARK
EXST	EXISTING	SC-x	STEEL COLUMN MARK
EXP	EXPANSION	SCP-x	STEEL CAP PLATE MARK
EXT	EXTERIOR	SHT	SHEET
		SI	SPECIAL INSPECTION
FC-x	CONTINUOUS FOOTING MARK	SIM	SIMILAR
F.D.	FLOOR DRAIN	SMU	SUSPENDED MECHANICAL UNITS
FDN	FOUNDATION	SOG	SLAB-ON-GRADE
F.F.	FINISHED FLOOR	SQ	SQUARE
FR-x	RECTANGULAR FOOTING MARK	STAG	STAGGERED
FS-x	SQUARE FOOTING MARK	STD	STANDARD
FT	FOOT	STL	STEEL
FTG	FOOTING	STR	STRUCTURAL
FTS-x	THICKEN SLAB MARK	STS	SELF TAPPING SCREWS
GA	GAUGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	TEMP	TEMPERATURE
GSN	GENERAL STRUCTURAL NOTES	THDS	THREADS
		T.O.	TOP OF
HB	HORIZONTAL BRIDGING	TOC	TOP OF CONCRETE
HORIZ	HORIZONTAL	TOD	TOP OF DECK
HSA	HEADED STUD ANCHOR	TOF	TOP OF FOOTING
HT	HEIGHT	TOS	TOP OF STEEL
		TOW	TOP OF WALL
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	TYP	TYPICAL
IBC	INTERNATIONAL BUILDING CODE	UNO	UNLESS NOTED OTHERWISE
I.F.	INSIDE FACE		
IN.	INCH	VERT	VERTICAL
INT	INTERIOR		
		W/	WITH
JT	JOINT	WWF	WELDED WIRE FABRIC
JST	JOIST	WWM	WELDED WIRE MESH

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STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

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ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

"Engineering Results"
BHB Consulting Engineers
A Professional Corporation
2766 South Main Street
Salt Lake City, Utah 84115
Phone: 801.355.5656
Fax: 801.355.5950
Email: bhb@bhbengineers.com

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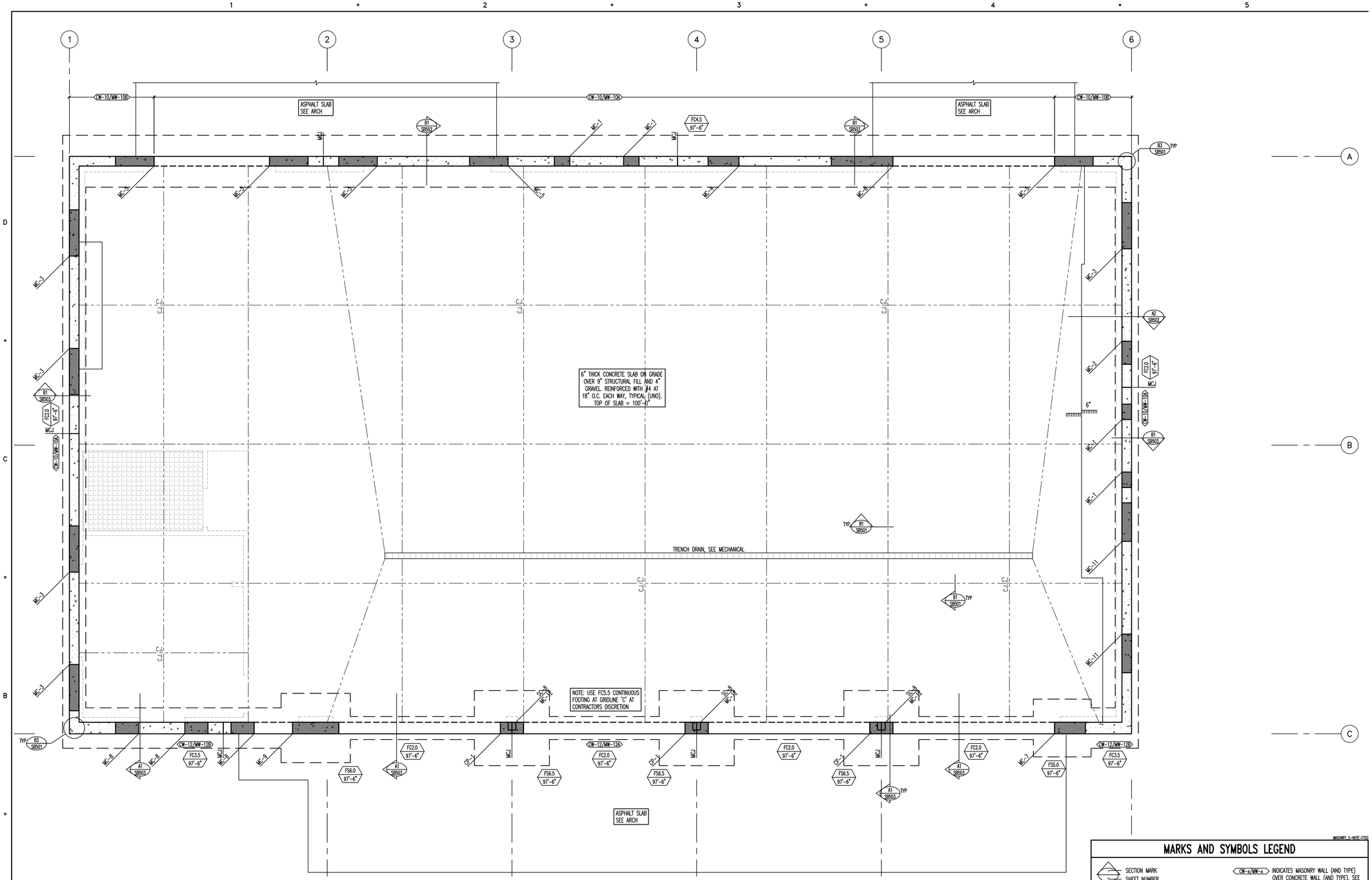
DRAWN BY:	
CHECKED BY:	
SCALE:	
DATE:	FEBRUARY, 2009

SHEET TITLE

GENERAL STRUCTURAL NOTES

SJ001



FOOTING AND FOUNDATION PLAN

SCALE: 1/4"=1'-0"

0 4' 8' 16'

NORTH

MASONRY_S-NOTE-FTGS

FOOTING AND FOUNDATION PLAN NOTES

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
3. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
4. SEE "EARTHWORK" NOTES ON SHEET SJ001 AND DETAIL A2/SB501 FOR MINIMUM FILL REQUIRED BENEATH FOOTINGS.
5. ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
6. SEE DETAILS A3/SB501 AND A4/SB501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
7. SEE DETAIL B1/SB501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
8. SEE DETAIL C1/SB501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
9. SEE DETAIL C2/SB501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN MASONRY WALLS.
10. SEE DETAIL A1/SB502 FOR CONDITION AT RECESSES IN MASONRY WALLS.
11. SEE DETAIL B2/SB502 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
12. SEE DETAIL B1/SB502 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
13. SEE DETAIL A2/SB502 AND A3/SB502 FOR ANCHORAGE OF HOUSEKEEPING PADS.
14. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

MARKS AND SYMBOLS LEGEND

- SECTION MARK / SHEET NUMBER
- FOOTING DESIGNATION / TOP OF FOOTING ELEVATION
- S——S INDICATES FOOTING STEP, SEE DETAIL A1/SB501
- INDICATES CONCRETE WALL.
- INDICATES MASONRY WALL.
- DEPRESS FOUNDATION WALL AND POUR SLAB OVER. SEE DETAIL A1/SB503 AND B1/SB503
- CW-x INDICATES CONCRETE FOUNDATION WALL TYPE, SEE SCHEDULE ON SHEET SB601.
- INDICATES RECESSED SLAB. RECESS SHALL NOT EXCEED 3/4". SEE ARCHITECTURAL DRAWINGS FOR SLOPES AND CONFIGURATION.
- CW-x/MW-x INDICATES MASONRY WALL (AND TYPE) OVER CONCRETE WALL (AND TYPE), SEE SCHEDULES ON SHEET SB601.
- CP-x INDICATES CONCRETE PIER. SEE SCHEDULE ON SHEET SB601.
- FCxx INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET SB601.
- FSxx INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET SB601.
- C.J. INDICATES CONTROL/CONSTRUCTION JOINT. SEE DETAILS B1/SB501 AND B2/SB501.
- SC-x INDICATES STEEL COLUMN. SEE SCHEDULE ON SHEET SF601.
- MC-x INDICATES MASONRY COLUMN TYPE. SEE SCHEDULE ON SHEET SF601.
- MCJ INDICATES MASONRY CONTROL JOINT, SEE DETAIL B2/SB502.

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STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

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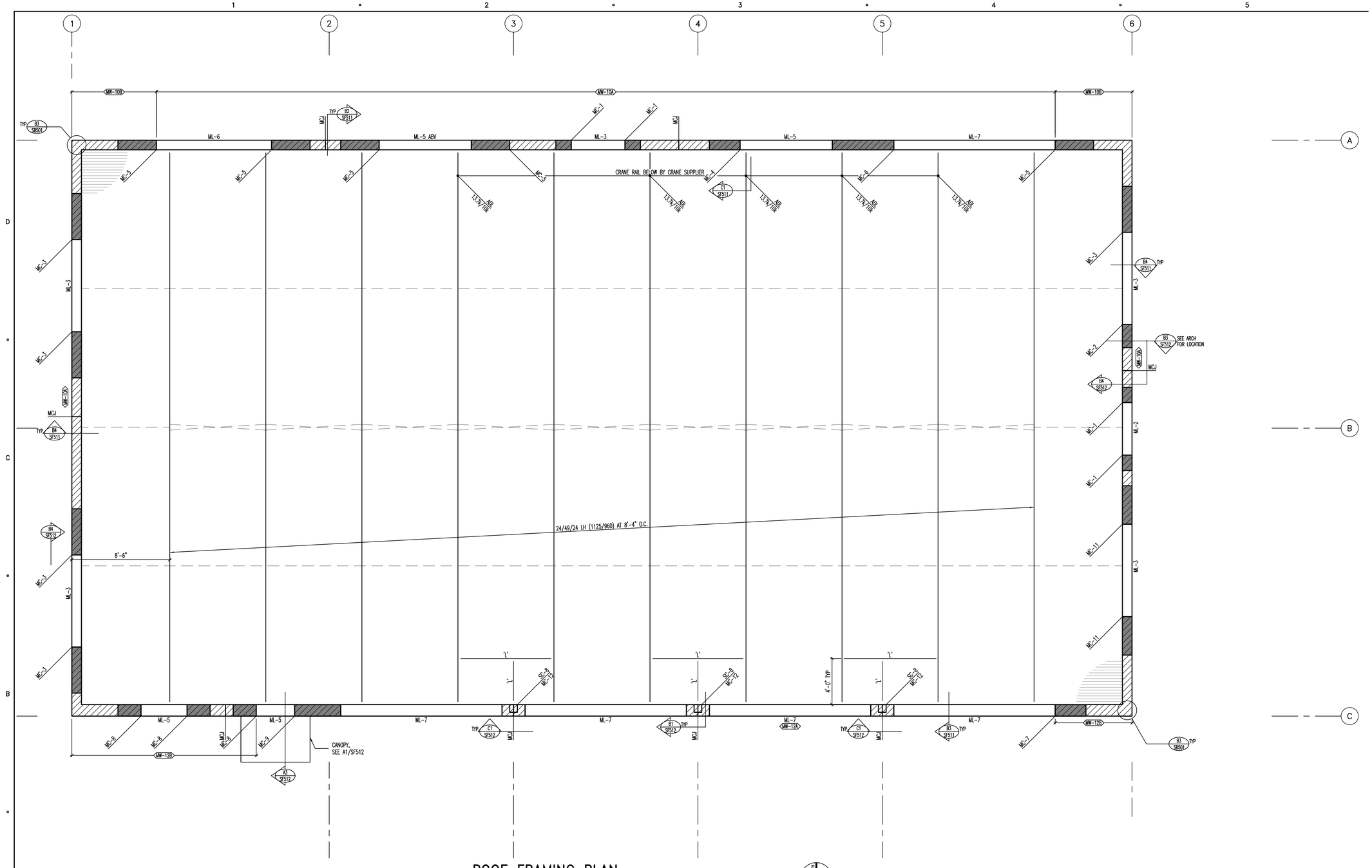
FOOTING AND FOUNDATION PLAN

SB101



ROOF FRAMING PLAN

SCALE: 1/4"=1'-0" 0 4' 8' 16' NORTH

MASONRY S-NOTE-ROOF

ROOF FRAMING PLAN NOTES

1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. JOIST SUPPLIER SHALL DESIGN ALL ROOF JOIST BEARING ENDS AT MASONRY WALLS TO TRANSFER 1500# (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING SHOE.
3. ALL JOISTS SHALL HAVE 5" DEEP BEARING ENDS (UNO).
4. ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12" x 12" SHALL BE FRAMED AS INDICATED IN DETAILS A1/SF511. FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES, SEE DETAIL A3/SF511.
5. SEE DETAIL A4/SF511 WHEN CONCENTRATED LOADS ARE LOCATED MORE THAN 6" FROM JOIST OR JOIST GIRDER PANEL POINT.
6. SEE DETAIL B1/SF511 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
7. VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE DETAIL A2/SF511 FOR STEEL FRAMES AT ALL ROOF TOP EQUIPMENT. COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS.
8. LOCATE MISCELLANEOUS MECHANICAL OPENINGS BETWEEN JOISTS, NOT UNDERNEATH THEM.
9. OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.
10. JOIST BRIDGING SHOWN ON PLANS IS FOR REPRESENTATION ONLY; ACTUAL SIZE, QUANTITY, AND LOCATION WILL BE DETERMINED BY THE JOIST SUPPLIER PER 'SJI' REQUIREMENTS. ALL BRIDGING AND BRIDGING ANCHORS NEED TO BE IN PLACE BEFORE APPLYING ANY LOADS. WHERE SKYLIGHT OR MECHANICAL UNITS/DUCTS INTERRUPT HORIZONTAL BRIDGING, PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE OF THE OPENING. WHERE DIAGONAL BRIDGING CONFLICTS WITH MECHANICAL DUCTS, REMOVE DIAGONAL BRIDGING AND REPLACE WITH HORIZONTAL BRIDGING AFTER ROOF DECK IS IN PLACE.
11. JOIST DESIGNER SHALL DESIGN JOISTS AND SUPPLY ADDITIONAL BRIDGING AS REQUIRED FOR UPLIFT DUE TO WIND. ASSUME:
    DEAD LOAD = 12psf WIND UPLIFT = 20psf (GROSS)
    NO 1/3 STRESS INCREASE ALLOWED.
12. SEE DETAIL C2/SB501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN MASONRY WALLS.
13. SEE DETAIL A1/SB502 FOR CONDITION AT RECESSES IN MASONRY WALLS.
14. SEE DETAIL B2/SB502 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
15. SEE DETAIL B1/SB502 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
16. SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.

MARKS AND SYMBOLS LEGEND

- SECTION MARK / SHEET NUMBER
- INDICATES MASONRY WALL WHICH EXTENDS ABOVE ROOF DECK.
- INDICATES MASONRY WALL WHICH STOPS AT ROOF DECK.
- INDICATES METAL ROOF DECK. SEE GENERAL STRUCTURAL ON SHEET SJ001.
- MW-x — INDICATES MASONRY WALL TYPE, SEE SCHEDULE ON SHEET SB601.
- * — INDICATES THAT THESE JOISTS SHALL BE DESIGNED FOR AN ADLOAD OF 1000# AT ANY POINT.
- _LH (**/**) — INDICATES LH-SERIES JOIST WITH ALLOWABLE TOTAL LOAD / ALLOWABLE LIVE (SNOW) LOAD.
- SC-x — INDICATES STEEL COLUMN. SEE SCHEDULE ON SHEET SF601.
- MC-x — INDICATES MASONRY COLUMN TYPE. SEE SCHEDULE ON SHEET SF601.
- ML-x — INDICATES MASONRY LINTEL TYPE. SEE SCHEDULE ON SHEET SF601.
- MCJ — INDICATES MASONRY CONTROL JOINT, SEE DETAIL B2/SB502.

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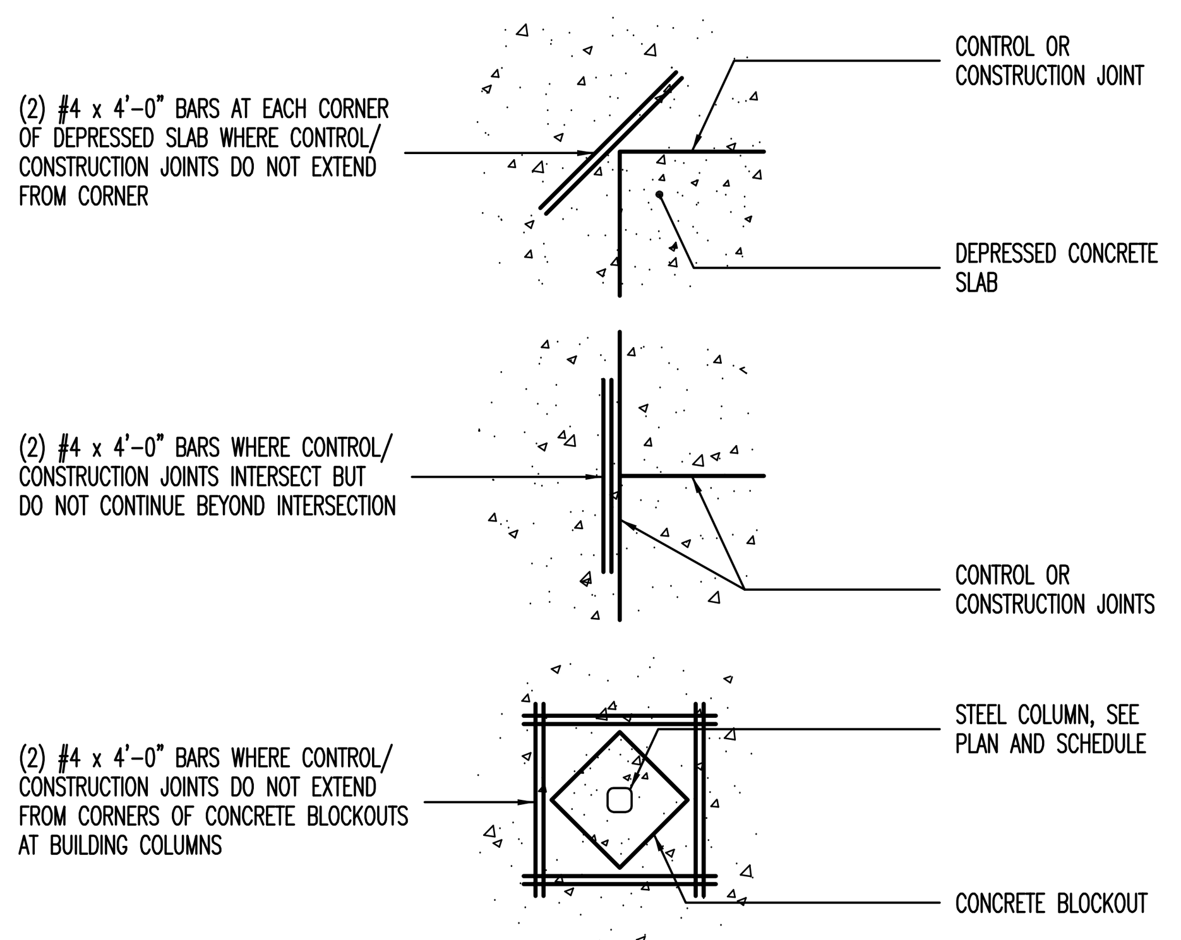
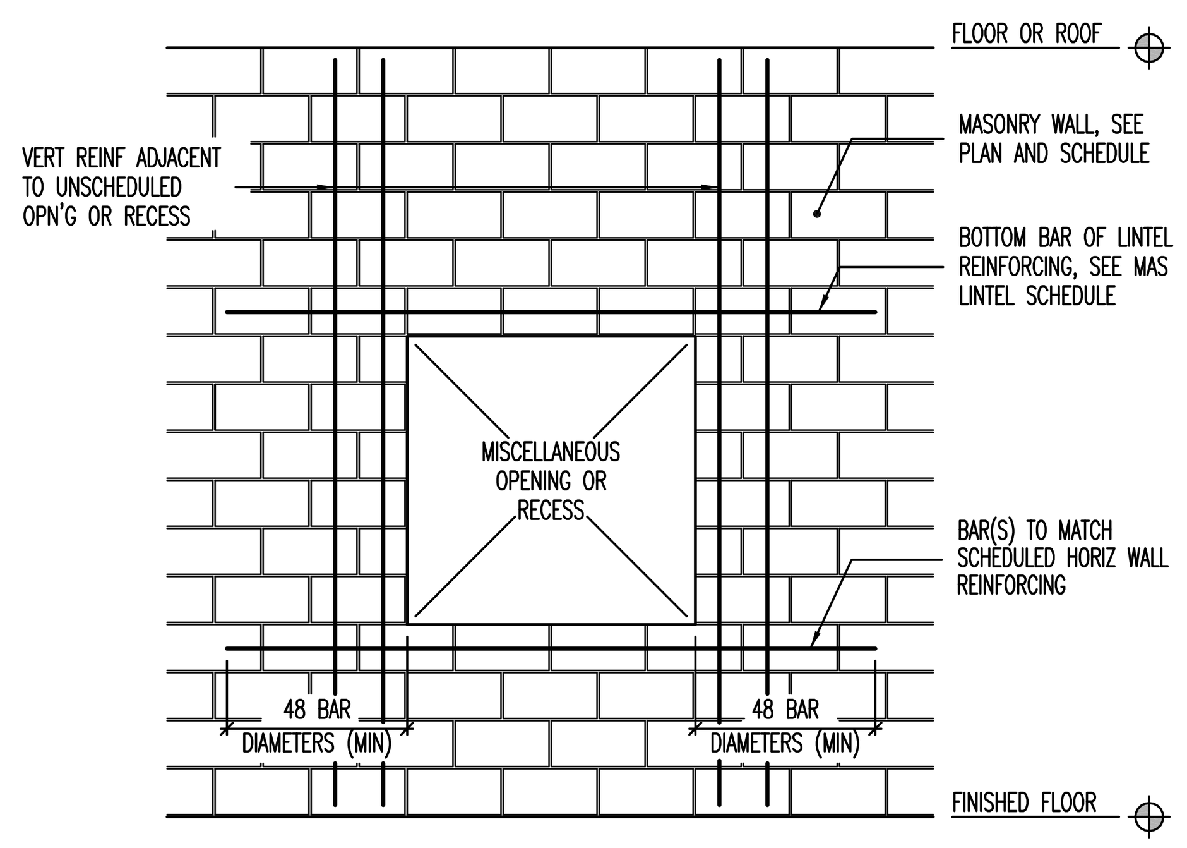
ROOF FRAMING PLAN

SF111

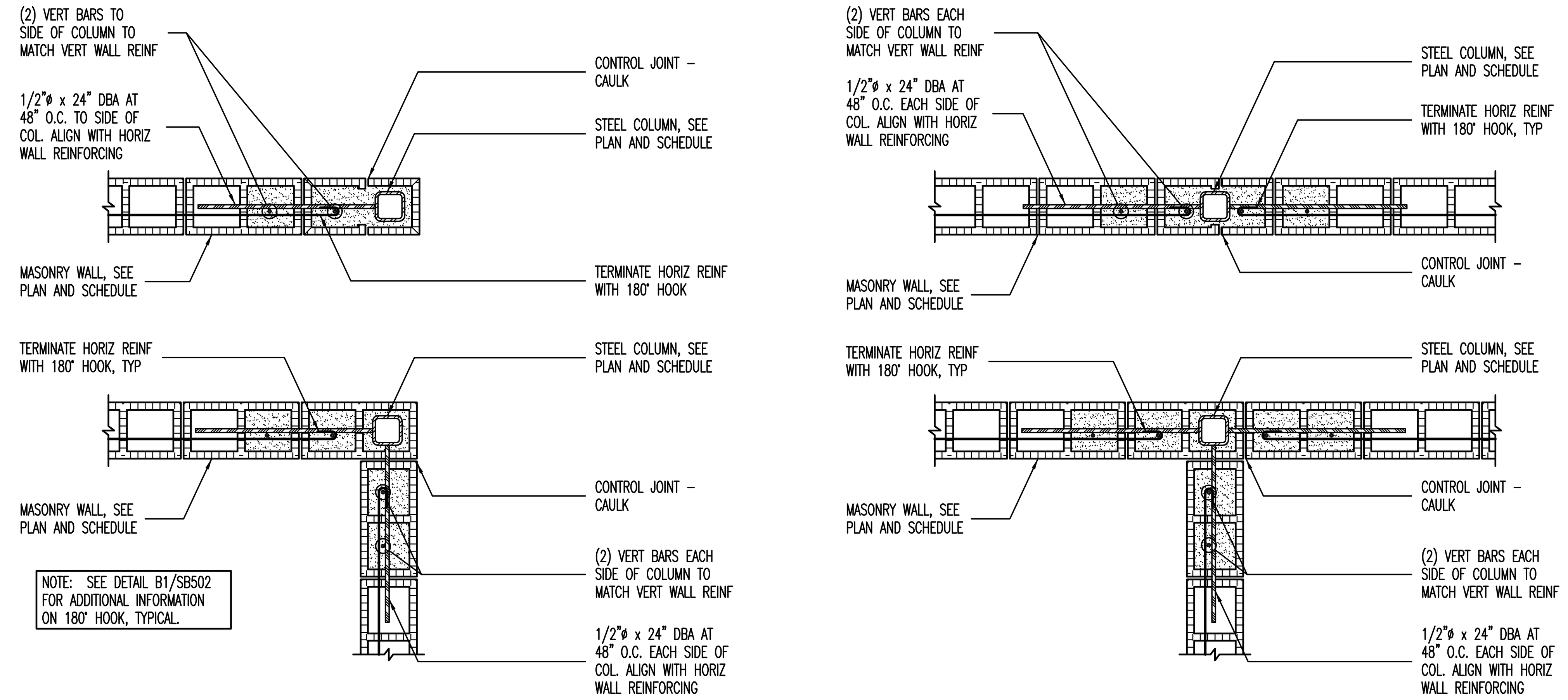
VERTICAL REINFORCING ADJACENT TO UNSCHEDULED OPENING OR RECESS
WHERE OPENING WIDTH IS LESS THAN OR EQUAL TO 3'-0":
USE (2) #5 BARS FOR 6" WALLS. USE (2) #5 BARS FOR 8"/10" WALLS. USE (2) #5 BARS FOR 12" WALLS.
WHERE OPENING WIDTH IS GREATER THAN 3'-0" CONTACT STRUCTURAL ENGINEER



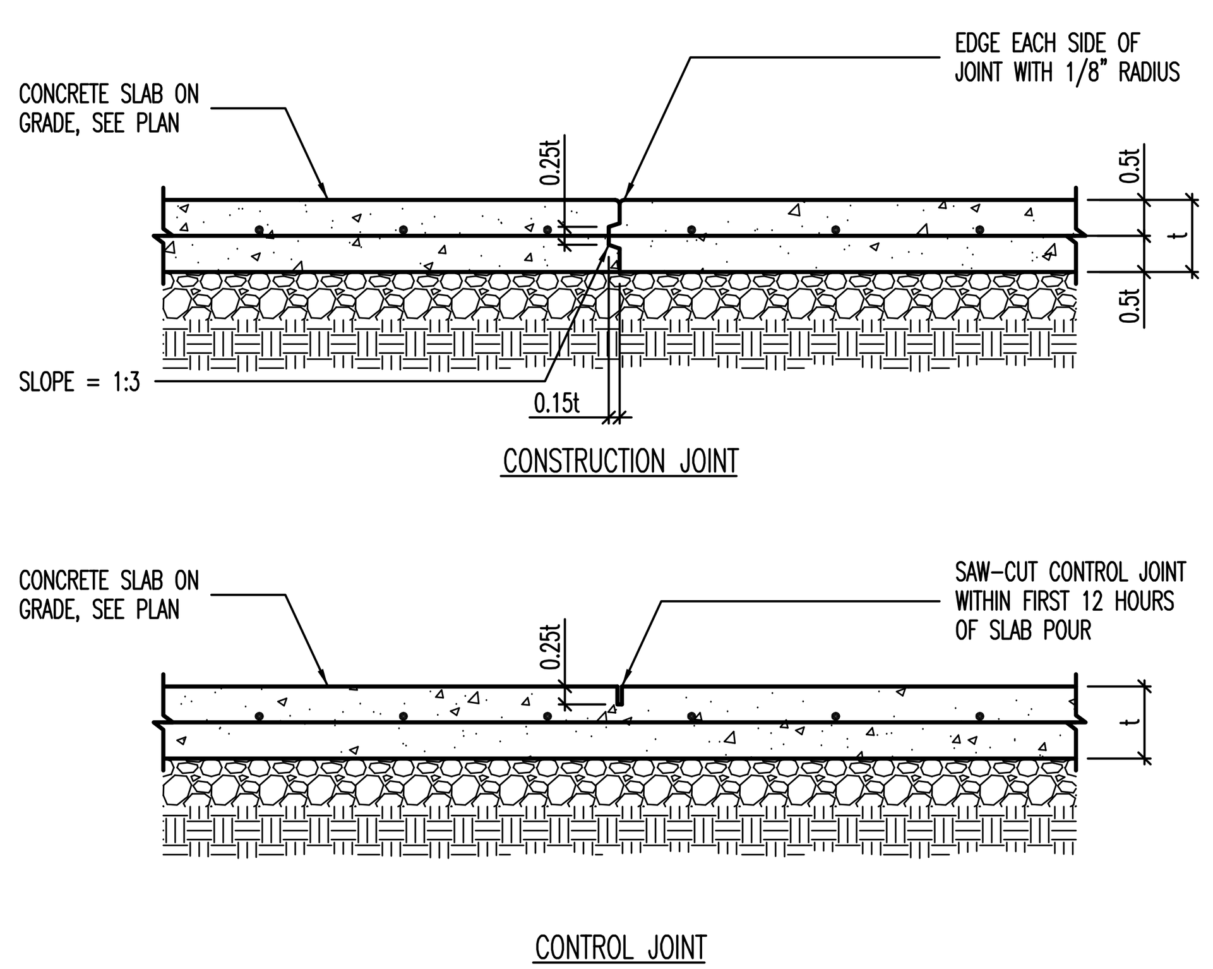
C1 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING [PLAN VIEW]
NO SCALE
132097-00



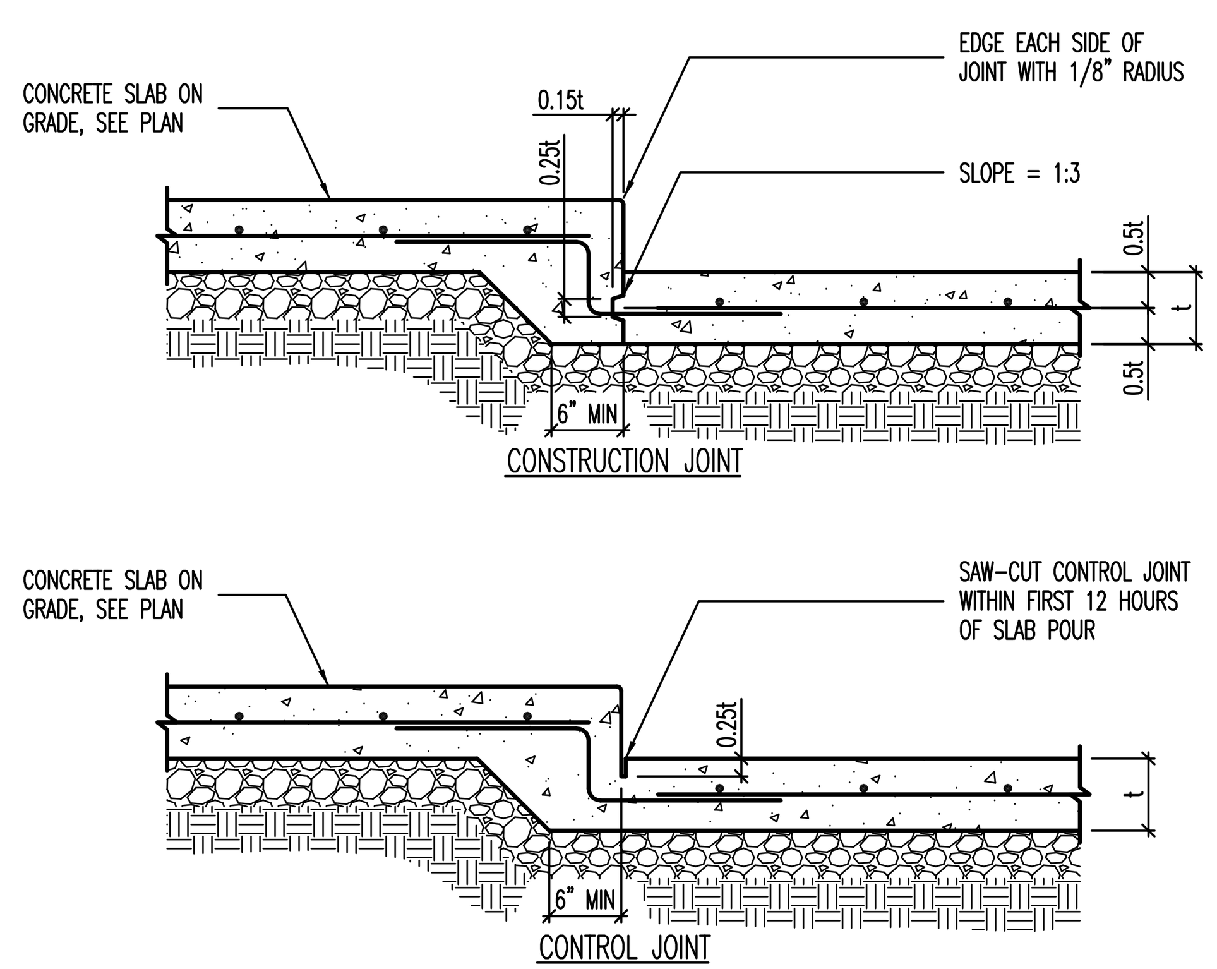
C2 REINFORCING AT UNSCHEDULED MISCELLANEOUS OPENINGS OR RECESSES IN MASONRY WALLS
NO SCALE
786944-00



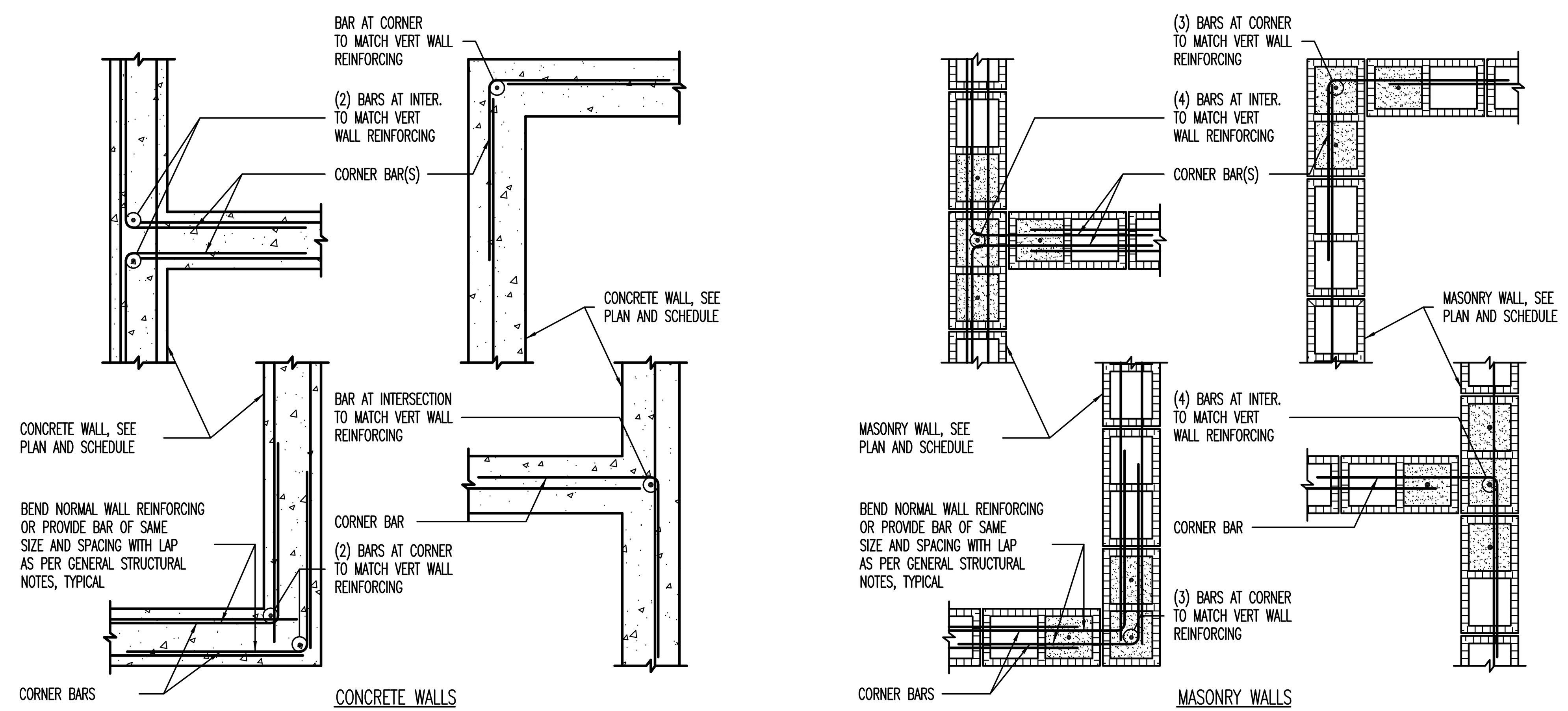
C3 TYPICAL STEEL COLUMN BURIED IN MASONRY WALLS [PLAN VIEW]
NO SCALE
919041-00



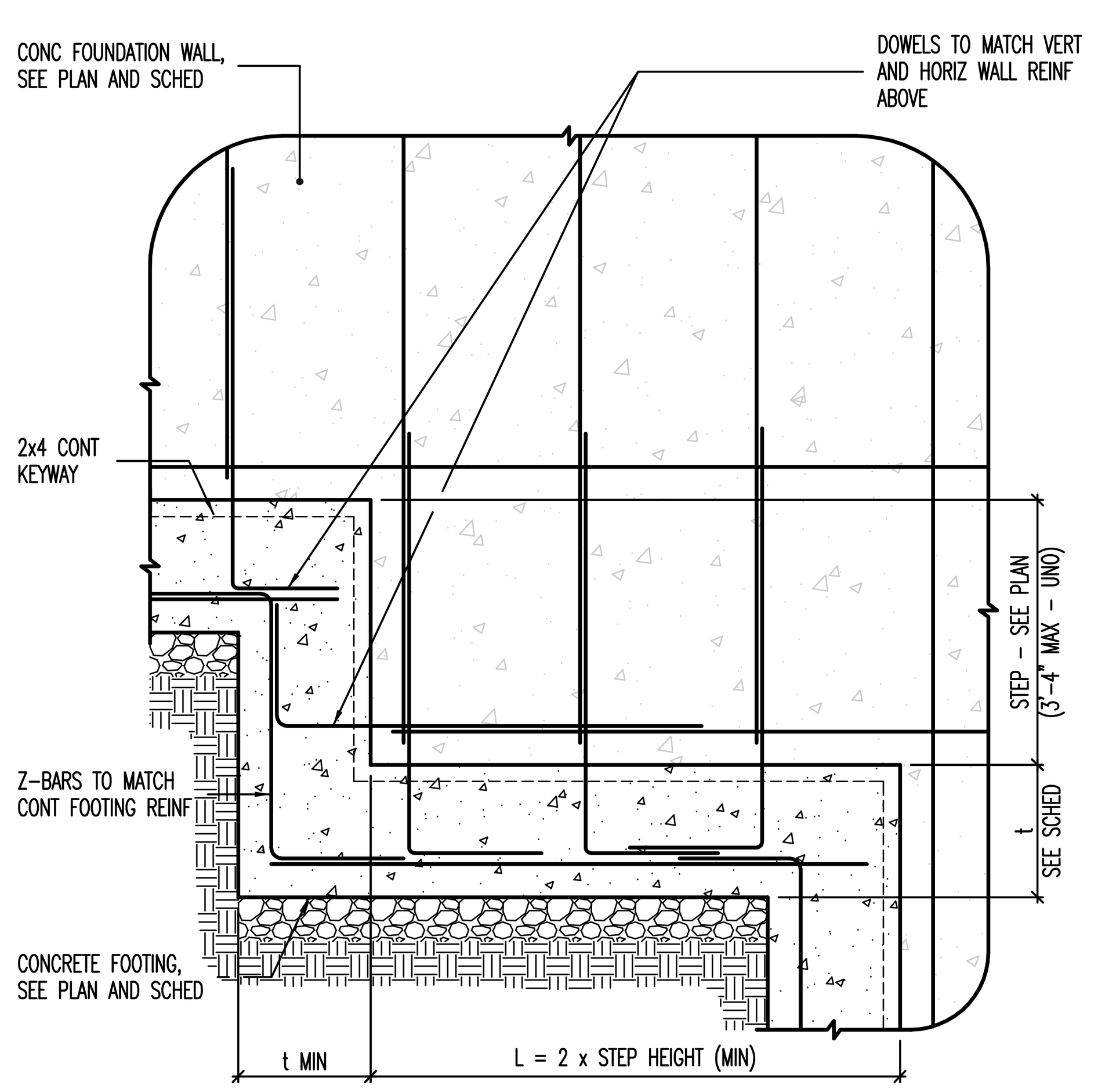
B1 TYPICAL SLAB ON GRADE JOINT DETAILS
NO SCALE
0-00



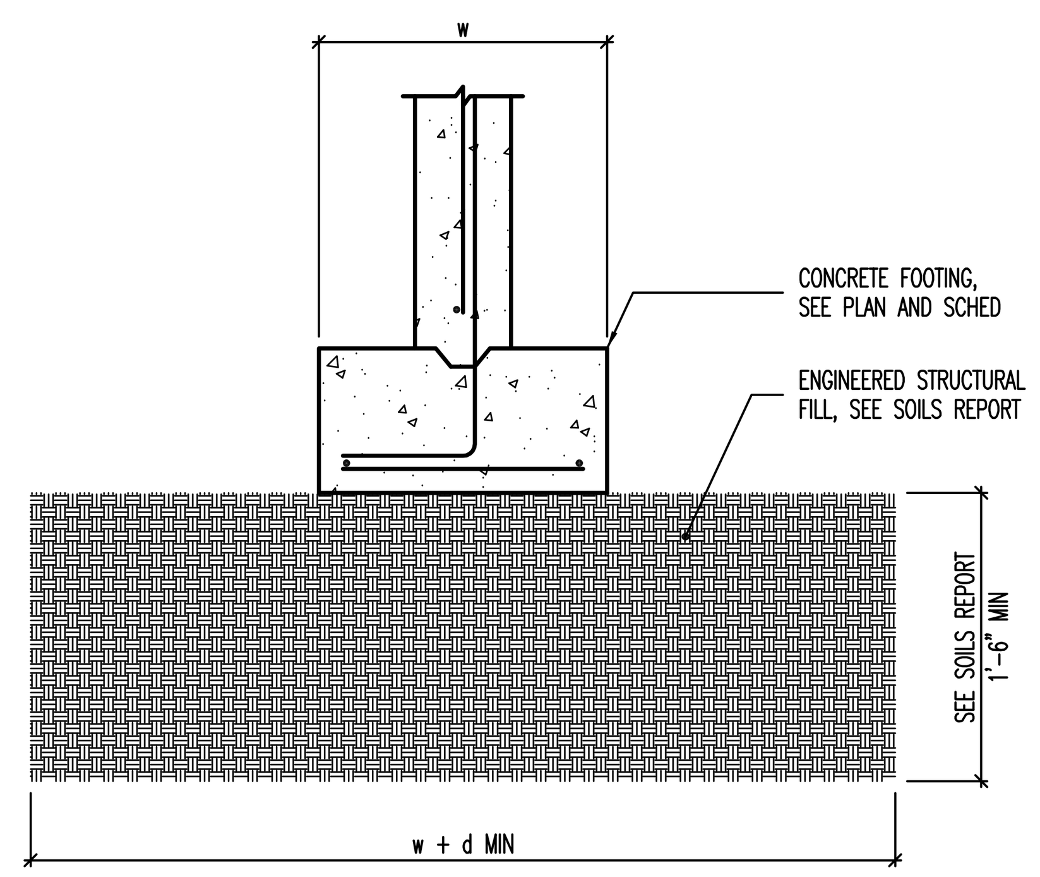
B2 JOINT DETAILS AT SLAB DEPRESSIONS
NO SCALE
0-01



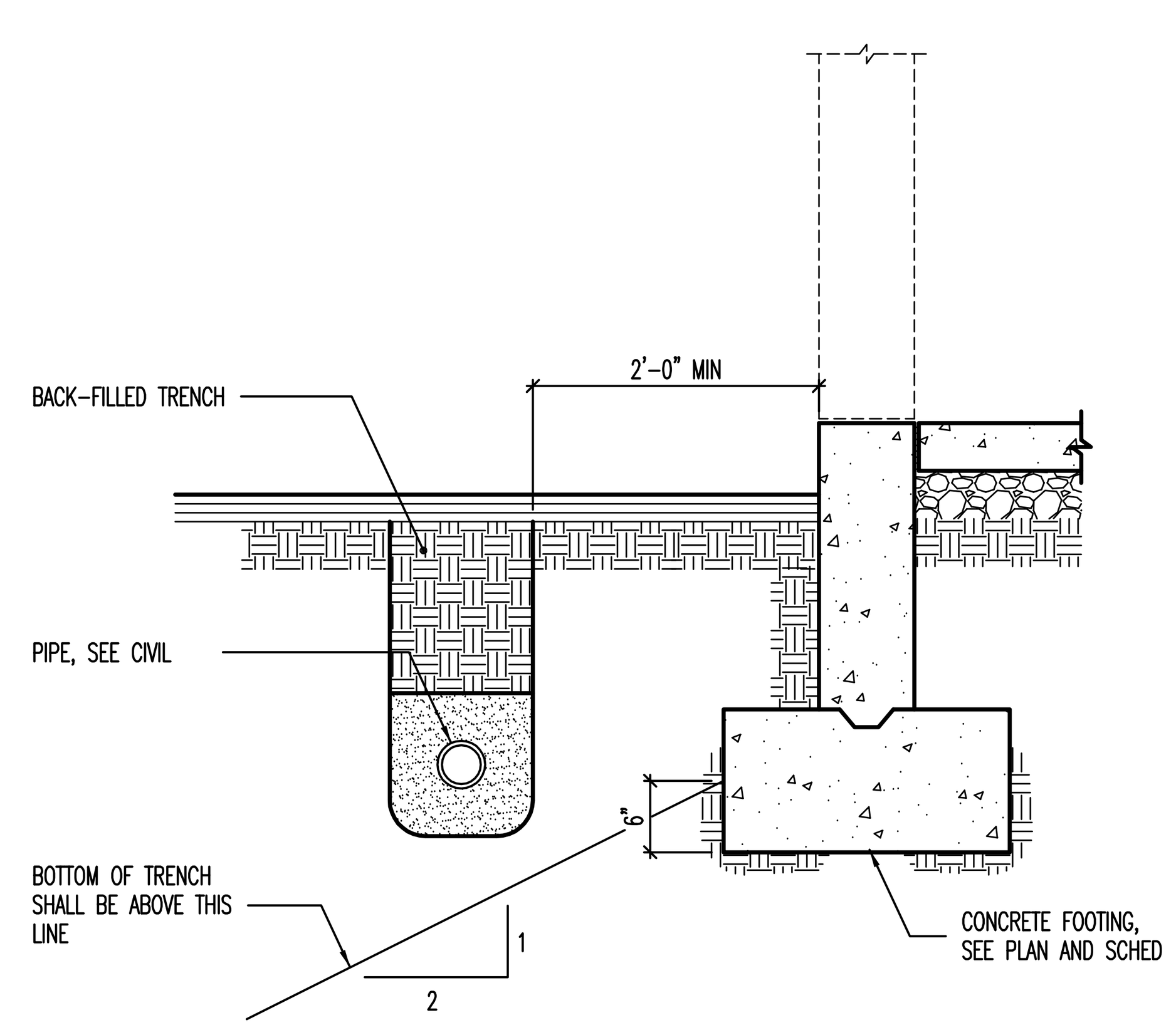
B3 TYPICAL CORNER WALL REINFORCING [PLAN VIEW]
NO SCALE
2884097-00



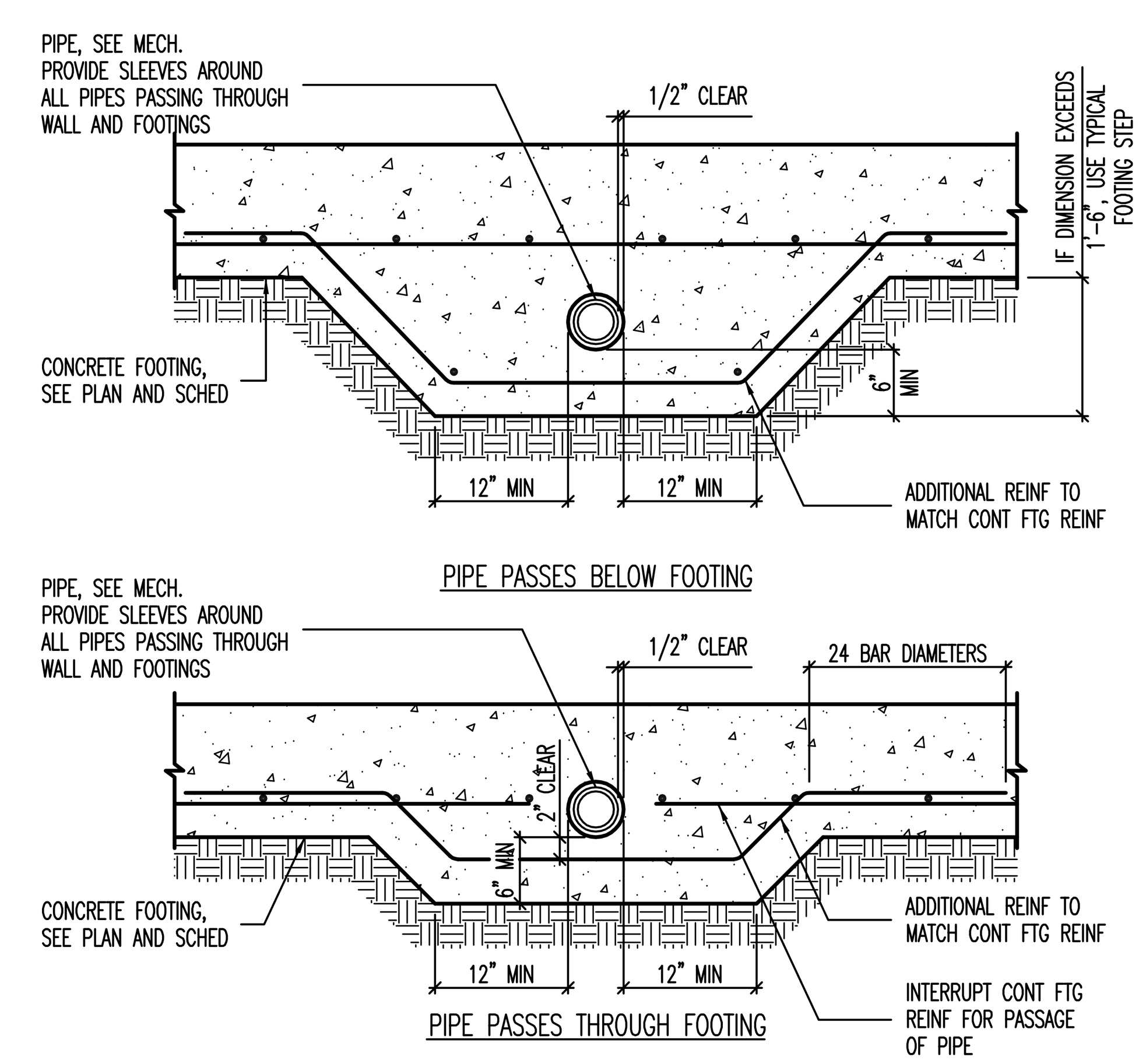
A1 TYPICAL FOOTING STEP DETAIL
NO SCALE
2114048-00



A2 ENGINEERED STRUCTURAL FILL DETAIL
NO SCALE
2114048-02



A3 CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING
NO SCALE
2114048-01



A4 CONDITIONS AT PIPE PERPENDICULAR TO FOOTING
NO SCALE
16384-00

CLIENT

UDOT CONNECTING COMMUNITIES
STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

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Fax: 801.355.5950
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ARCHIPLEX PROJECT NO:
DRAWN BY:
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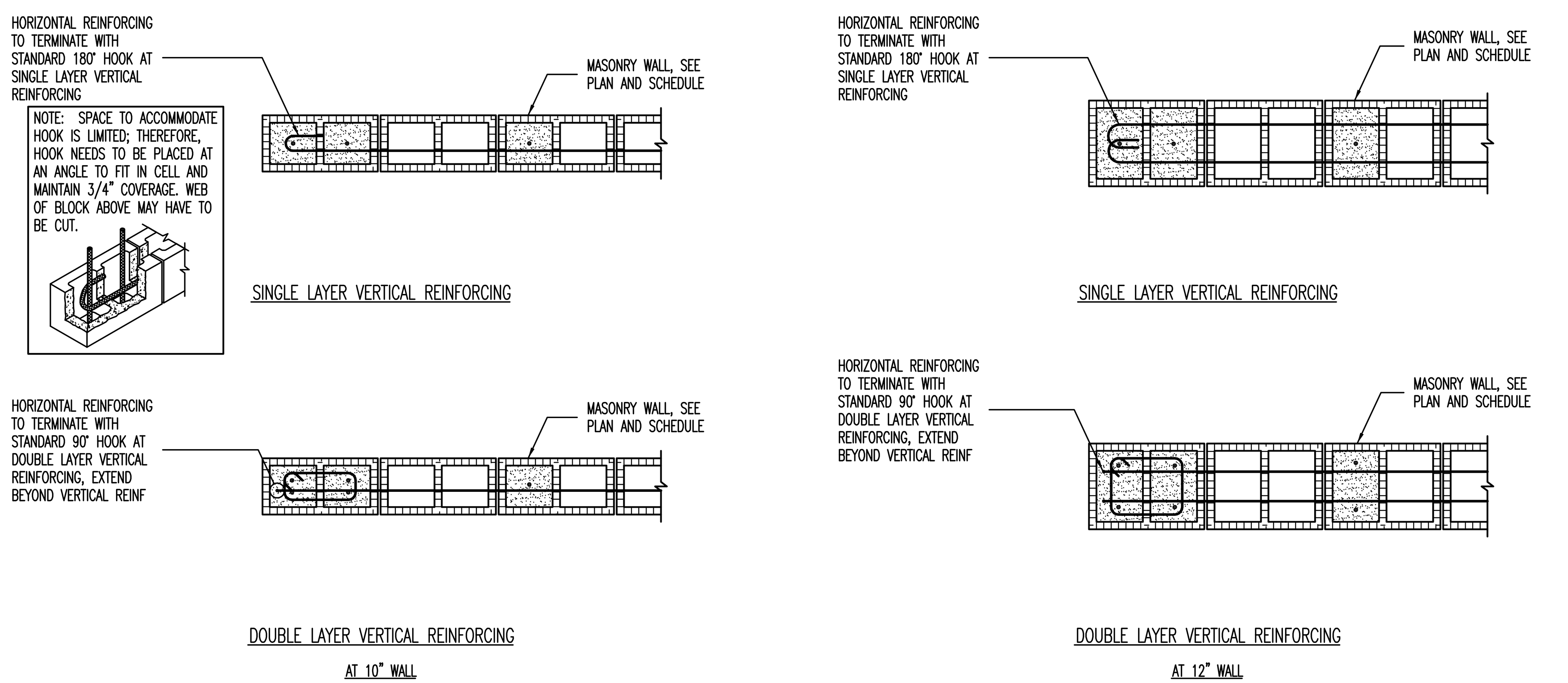
SCALE:
DATE: FEBRUARY, 2009

SHEET TITLE

FOOTING AND FOUNDATION DETAIL

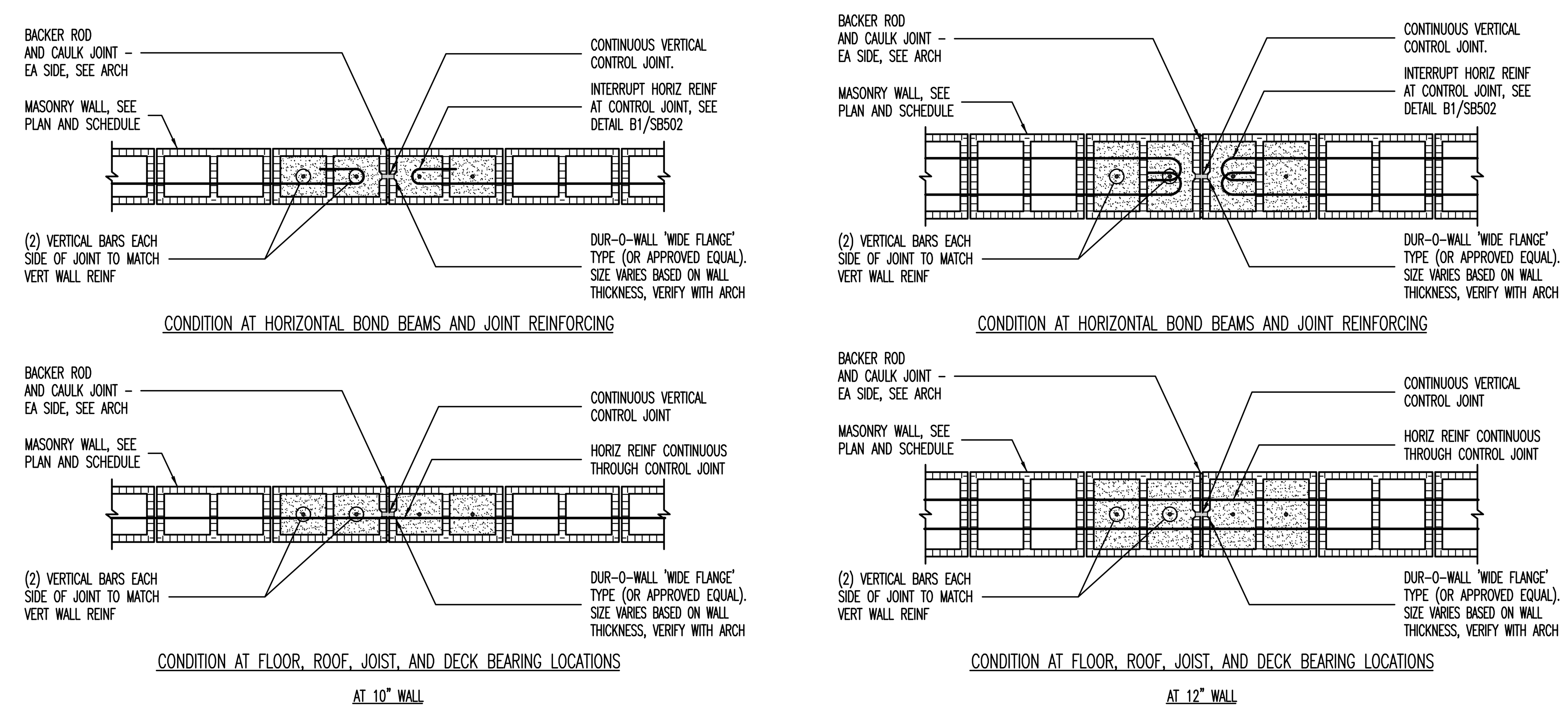
SB501



B1 TERMINATION OF HORIZONTAL REINFORCING IN 12" OR 10" MASONRY WALL [PLAN VIEW]

524801-01

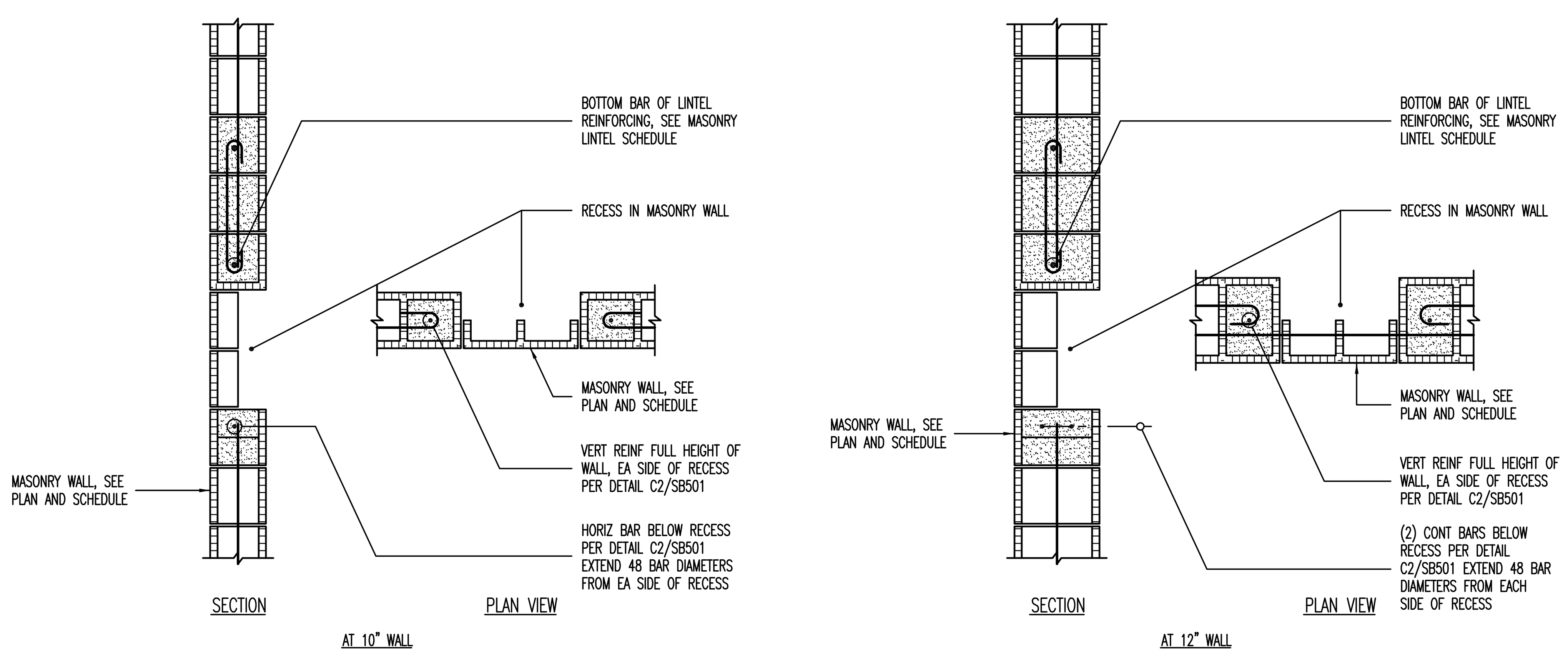
NO SCALE



B2 MASONRY CONTROL JOINT DETAIL AT 12" OR 10" MASONRY WALLS

524801-00

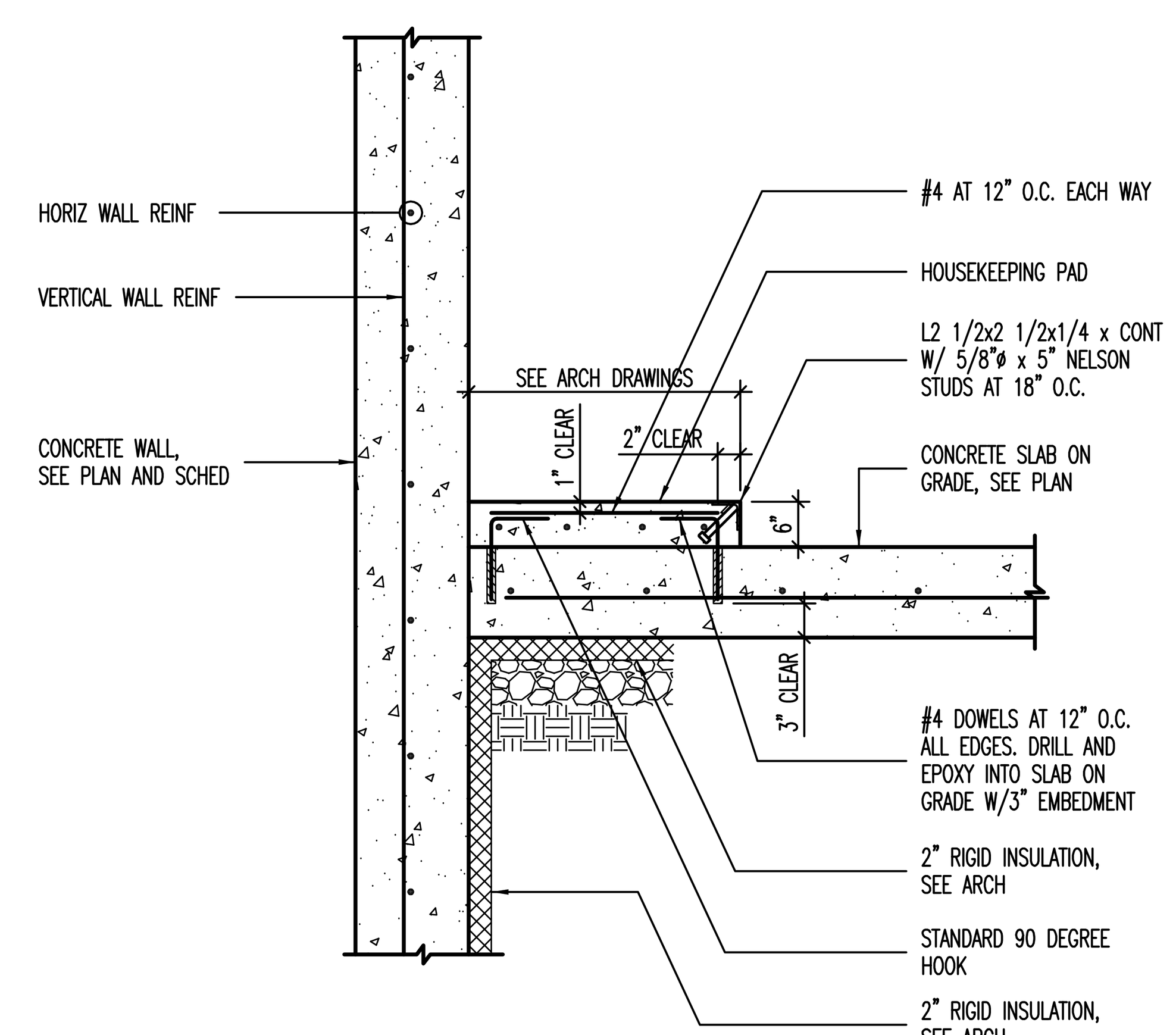
NO SCALE



A1 TYPICAL REINFORCING AT RECESS IN MASONRY WALLS

524929-00

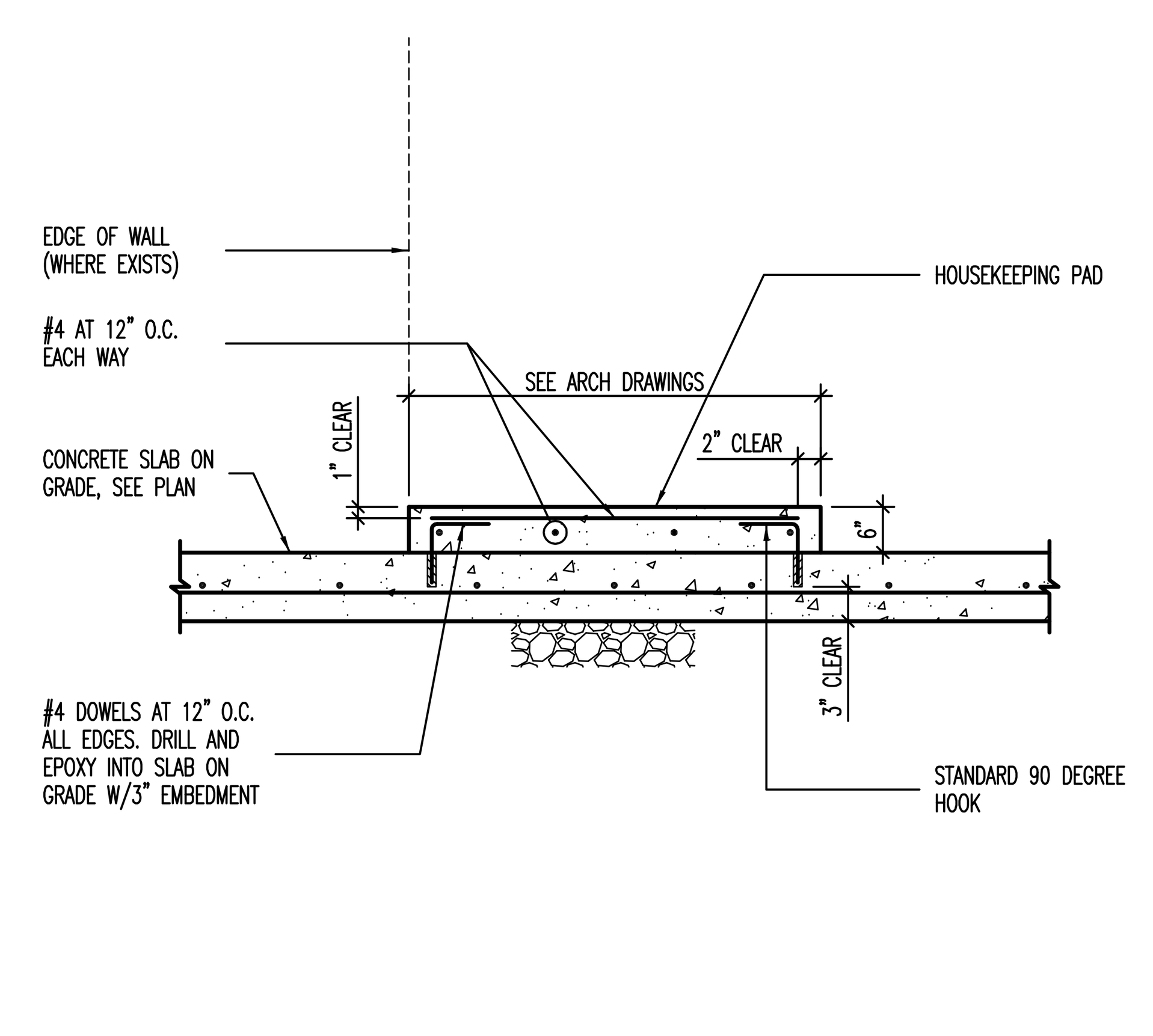
NO SCALE



A2 TYPICAL HOUSEKEEPING PAD

04167_S-503

NO SCALE



A3 TYPICAL HOUSEKEEPING PAD

04167_S-503

NO SCALE

CLIENT

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STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

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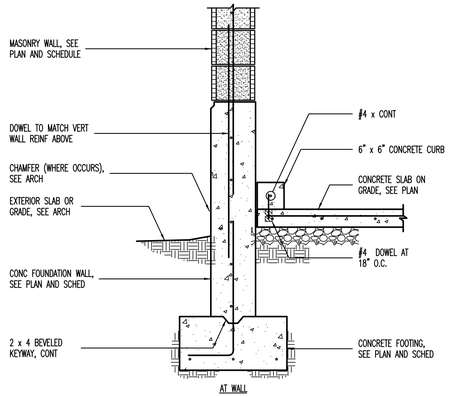
SHEET TITLE

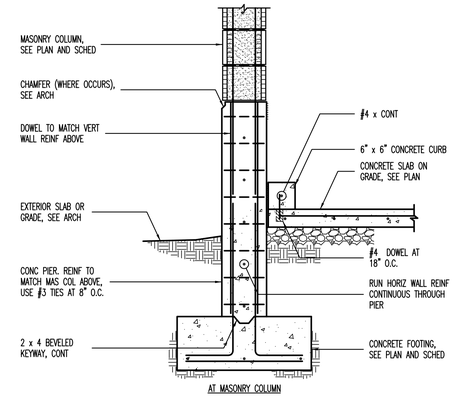
FOOTING AND FOUNDATION DETAIL

SB502

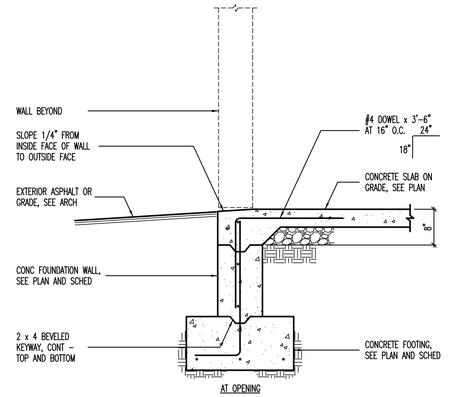
Q:\2008\08085\Struct\08085_SB502.dwg, 3/19/2009 10:58:05 AM, draft5, Tom



AT WALL



AT MASONRY COLUMN

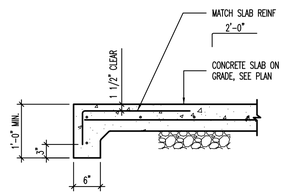


AT OPENING

B1 FOUNDATION WALL DETAIL AT 10" MASONRY WALL

2038648-03

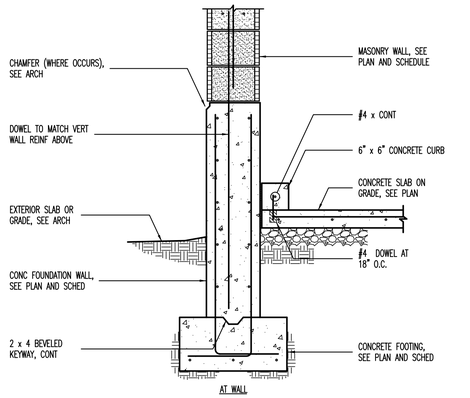
NO SCALE



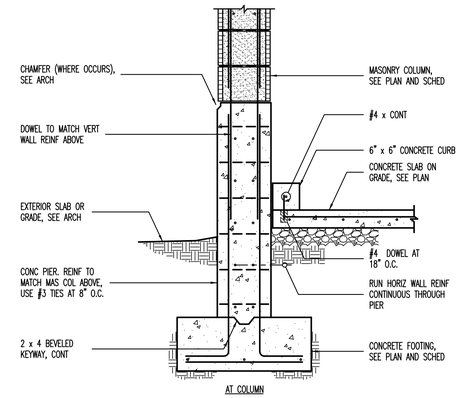
B4 SLAB TURNDOWN DETAIL

04167_S-503

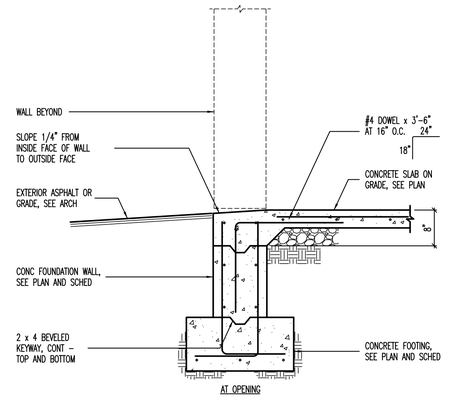
NO SCALE



AT WALL



AT COLUMN

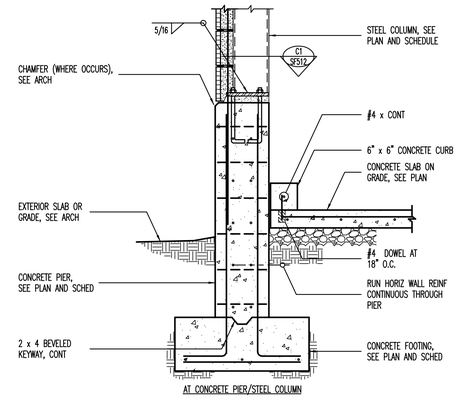


AT OPENING

A1 FOUNDATION WALL DETAIL AT 12" MASONRY WALL

2076182-05

NO SCALE



AT CONCRETE PIER/STEEL COLUMN

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STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
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Salt lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

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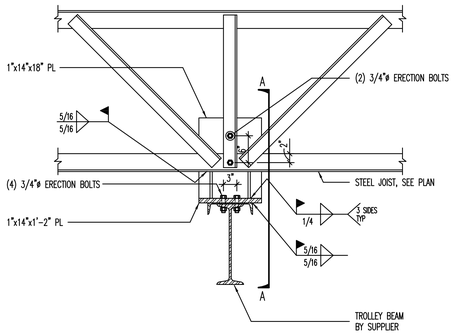
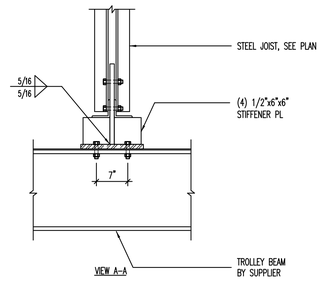
FOOTING AND FOUNDATION DETAIL

SB503

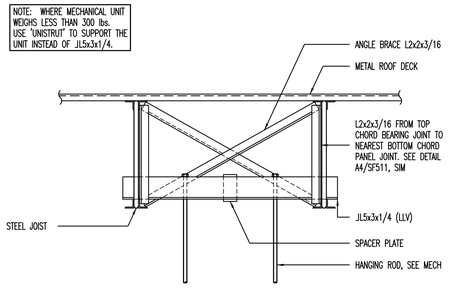




C1 TROLL BEAM SUPPORT DETAIL

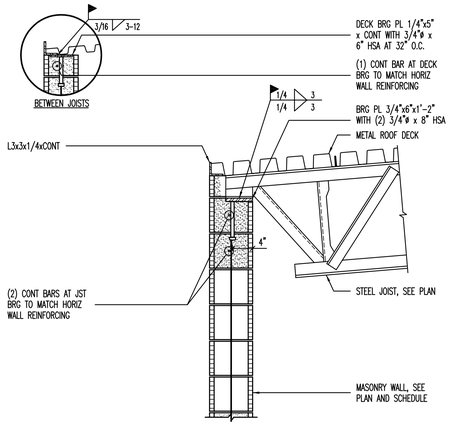
NO SCALE

NOTE: WHERE MECHANICAL UNIT WEIGHS LESS THAN 300 lbs. USE 'UNISTRUT' TO SUPPORT THE UNIT INSTEAD OF JL5x3x1/4.



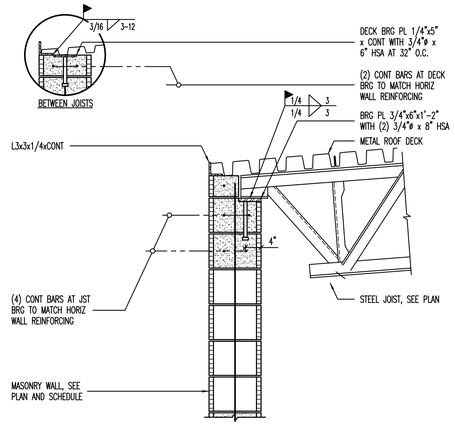
B1 TYPICAL HANGING MECHANICAL UNIT SUPPORT DETAIL

NO SCALE



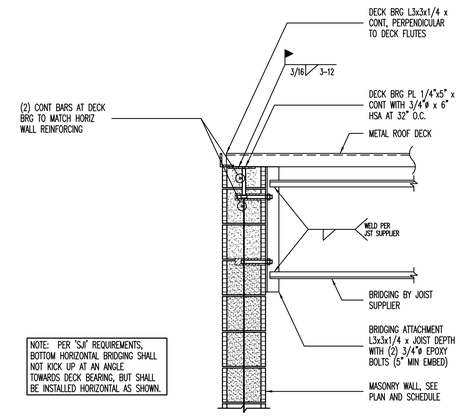
B2 TYPICAL 'LH' JOIST/DECK BEARING AT 10" MASONRY WALL

NO SCALE



B3 TYPICAL 'LH' JOIST/DECK BEARING AT 12" MASONRY WALL

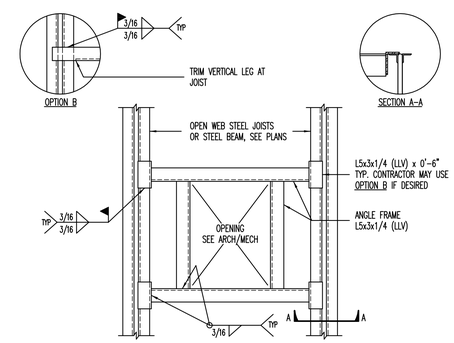
NO SCALE



NOTE: PER 'SJI' REQUIREMENTS, BOTTOM HORIZONTAL BRIDGING SHALL NOT KICK UP AT AN ANGLE TOWARDS DECK BEARING, BUT SHALL BE INSTALLED HORIZONTAL AS SHOWN.

B4 TYPICAL DECK BEARING AT 10" MASONRY WALLS WITH BRIDGING ATTACHMENT

NO SCALE

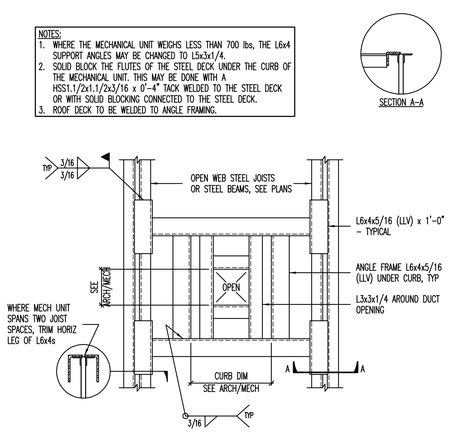


NOTES:
1. SEE DETAIL A3/SF511 FOR OPENINGS LESS THAN 12" IN DIAMETER.
2. PROVIDE EXTRA WEB MEMBERS PER DETAIL A4/SF511 FOR OPENINGS 6'-0" AND LARGER.
3. SEE TYPICAL ROOF TOP MECHANICAL UNIT SUPPORT DETAIL(S) FOR FRAMES UNDER MECHANICAL UNITS.
4. ROOF DECK TO BE WELDED TO ANGLE FRAMING.

A1 TYPICAL ROOF OPENING DETAIL [PLAN VIEW]

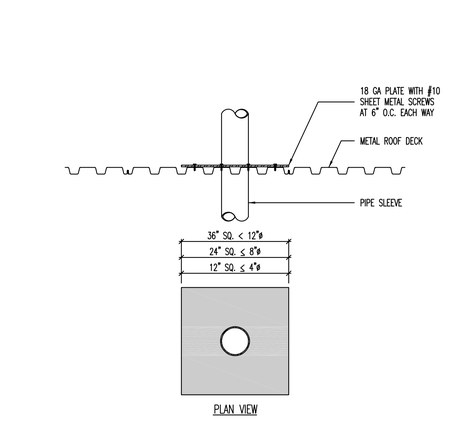
NO SCALE

NOTES:
1. WHERE THE MECHANICAL UNIT WEIGHS LESS THAN 700 lbs, THE L6x4 SUPPORT ANGLES MAY BE CHANGED TO L5x3x1/4.
2. SOLID BLOCK THE FLUTES OF THE STEEL DECK UNDER THE CURB OF THE MECHANICAL UNIT. THIS MAY BE DONE WITH A HSS1.1/2x1.1/2x3/16 x 0'-4" TACK WELDED TO THE STEEL DECK OR WITH SOLID BLOCKING CONNECTED TO THE STEEL DECK.
3. ROOF DECK TO BE WELDED TO ANGLE FRAMING.



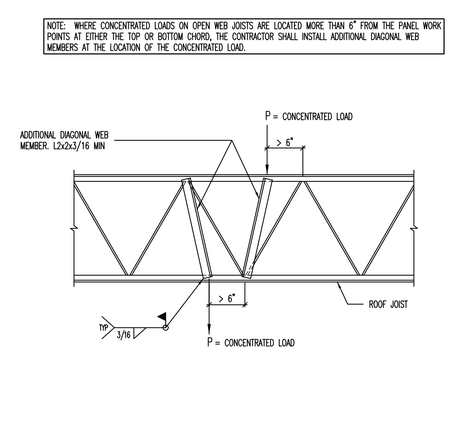
A2 TYPICAL ROOF TOP MECHANICAL UNIT SUPPORT DETAIL [PLAN VIEW]

NO SCALE



A3 TYPICAL PIPE SLEEVE THROUGH ROOF DECK

NO SCALE



NOTE: WHERE CONCENTRATED LOADS ON OPEN WEB JOISTS ARE LOCATED MORE THAN 6" FROM THE PANEL WORK POINTS AT EITHER THE TOP OR BOTTOM CHORD, THE CONTRACTOR SHALL INSTALL ADDITIONAL DIAGONAL WEB MEMBERS AT THE LOCATION OF THE CONCENTRATED LOAD.

A4 TYPICAL JOIST REINFORCING DETAIL FOR LOADS GREATER THAN 250 POUNDS

NO SCALE

CLIENT

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STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

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2766 South Main Street
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Phone: 801.355.3636
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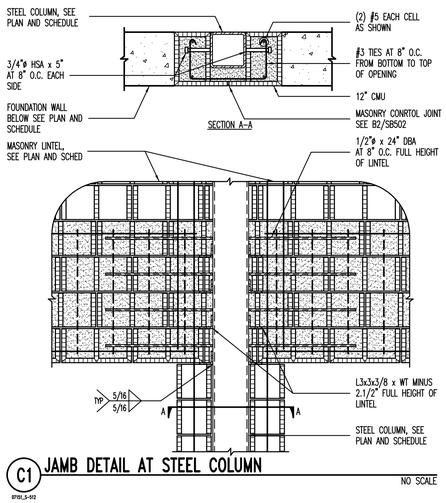
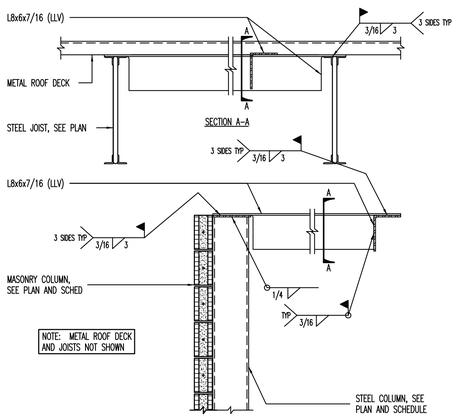
ROOF FRAMING DETAIL

SF511



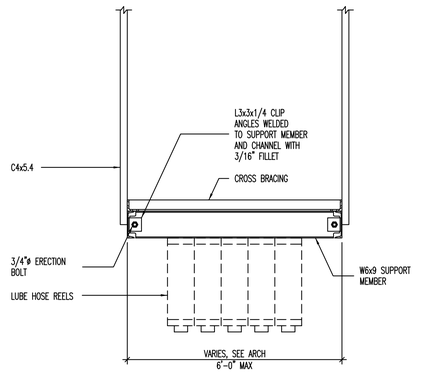
C1 JAMB DETAIL AT STEEL COLUMN

NO SCALE



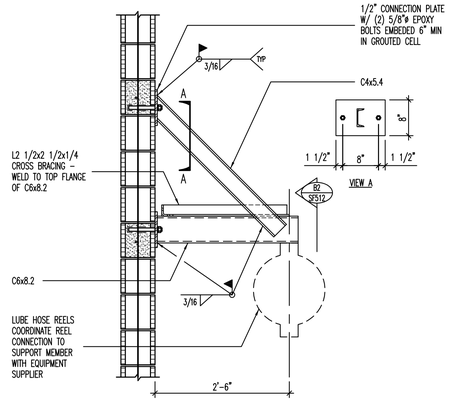
B1 STEEL COLUMN ANGLE BRACING DETAIL

NO SCALE



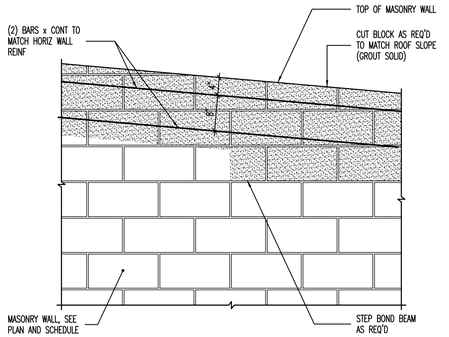
B2 HOSE REEL SUPPORT DETAIL

NO SCALE



B3 HOSE REEL SUPPORT AT MASONRY WALL

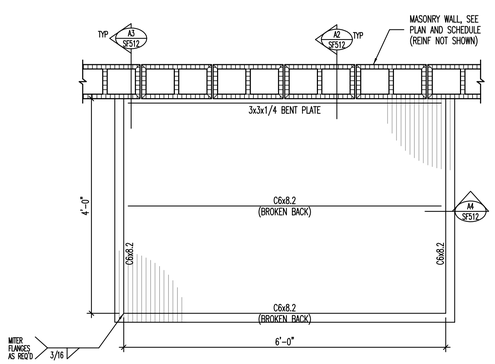
NO SCALE



B4 SLOPING MASONRY BOND BEAM

NO SCALE

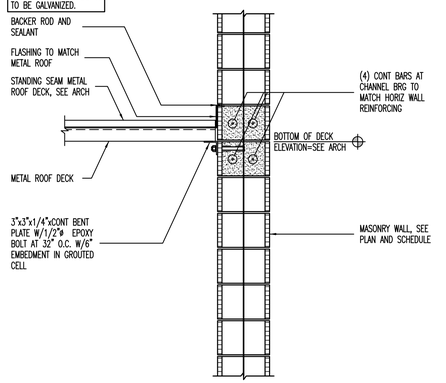
NOTE: ALL STEEL ON THIS DETAIL TO BE GALVANIZED.



A1 CANOPY ROOF FRAMING PLAN [PLAN VIEW]

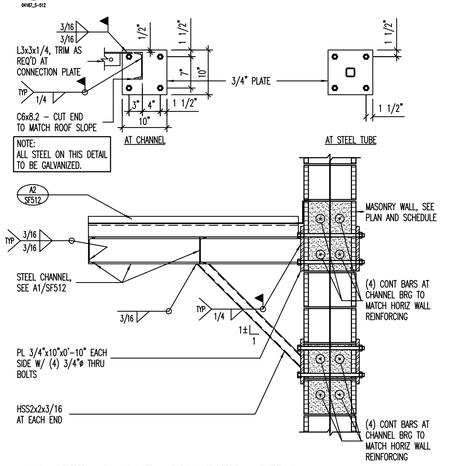
NO SCALE

NOTE: ALL STEEL ON THIS DETAIL TO BE GALVANIZED.



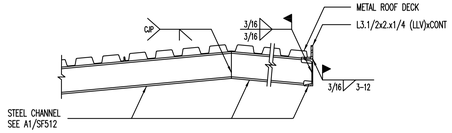
A2 LEDGER ANGLE BEARING AT MASONRY WALL

NO SCALE



A3 STEEL CHANNEL CONNECTION DETAIL

NO SCALE



A4 STEEL CHANNEL CONNECTION DETAIL

NO SCALE

CLIENT

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50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
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F:(801) 961-7373

CONSULTANTS

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SHEET TITLE

ROOF FRAMING DETAIL

SF512

CONCRETE FOOTING SCHEDULE

MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FTS2.0	2'-0"	CONT	12"	–	–	–	–	3	#4	CONT	EQ	THICKENED SLAB
FC1.5	1'-6"	CONT	12"	–	–	–	–	2	#5	CONT	EQ	.
FC2.0	2'-0"	CONT	12"	–	–	–	–	3	#4	CONT	EQ	
FC2.5	2'-6"	CONT	12"	–	#5	2'-0"	14"	3	#5	CONT	EQ	
FC3.0	3'-0"	CONT	12"	–	#5	2'-6"	14"	3	#5	CONT	EQ	
FC3.5	3'-6"	CONT	12"	–	#5	3'-0"	14"	3	#5	CONT	EQ	
FC4.0	4'-0"	CONT	12"	–	#5	3'-6"	14"	4	#5	CONT	EQ	
FC4.5	4'-6"	CONT	12"	–	#5	4'-0"	14"	4	#5	CONT	EQ	
FC5.0	5'-0"	CONT	12"	–	#5	5'-0"	14"	4	#5	CONT	EQ	
FC5.5	5'-5"	CONT	12"	–	#5	5'-6"	14"	4	#5	CONT	EQ	
FS3.0	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ	3	#5	2'-6"	EQ	
FS3.5	3'-6"	3'-6"	12"	3	#5	3'-0"	EQ	3	#5	3'-0"	EQ	
FS4.0	4'-0"	4'-0"	12"	4	#5	3'-6"	EQ	4	#5	3'-6"	EQ	
FS5.0	5'-0"	5'-0"	12"	5	#5	4'-6"	EQ	5	#5	4'-6"	EQ	
FS6.0	6'-0"	6'-0"	12"	6	#5	5'-6"	EQ	6	#5	5'-6"	EQ	
FS6.5	6'-6"	6'-6"	13"	6	#5	6'-0"	EQ	6	#5	6'-0"	EQ	
FS7.0	7'-0"	7'-0"	13"	7	#5	6'-6"	EQ	7	#5	6'-6"	EQ	

CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

D1 CONCRETE FOOTING SCHEDULE

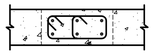
NO SCALE

SCHED_CONC_FTG-CZ000-01000

CONCRETE PIER SCHEDULE

MARK	PIER SIZE	REINFORCING		TYPE	COMMENTS
		VERTICAL	TIES		
CP-1	12" x 24"	(6) #5	(2) #3 AT 8" O.C.	A	.

CONCRETE PIER NOTES:
1. INSTALL (3) SETS OF TIES WITHIN TOP 5" OF ALL PIERS (UNO).
2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



TYPE "A"

D2 CONCRETE PIER SCHEDULE

NO SCALE

SCHED_CONC_PIER-01

CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

BAR SIZE	f'c = 3000psi				f'c = 4000psi				f'c = 5000psi				f'c = 6000psi			
	REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS		REGULAR CLASS		TOP CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	13"	17"	17"	21"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"
#4	17"	22"	22"	28"	15"	19"	19"	25"	13"	17"	17"	22"	12"	16"	16"	21"
#5	21"	27"	27"	35"	18"	24"	24"	31"	16"	21"	21"	27"	15"	19"	19"	25"
#6	27"	36"	36"	46"	24"	31"	31"	40"	21"	28"	28"	36"	20"	25"	25"	33"
#7	37"	48"	48"	63"	32"	42"	42"	54"	29"	38"	38"	49"	27"	34"	34"	44"
#8	49"	64"	64"	82"	42"	55"	55"	71"	38"	49"	49"	64"	35"	45"	45"	58"
#9	62"	80"	80"	104"	54"	70"	70"	90"	48"	62"	62"	81"	44"	57"	57"	74"
#10	78"	102"	102"	132"	68"	88"	88"	115"	61"	79"	79"	102"	56"	72"	72"	94"
#11	96"	125"	125"	162"	83"	108"	108"	141"	76"	97"	97"	126"	68"	88"	88"	115"

CONCRETE REINFORCING BAR LAP SPLICE NOTES:
1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
2. CLASS 'A' SPLICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPLICE LENGTH.
3. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS THE REQUIREMENTS OF NOTE No. 2 ABOVE ARE MET.
4. TIES AND STIRRUPS SHALL NOT BE SPLICED.
5. SPLICES FOR BUNDLED BARS:
   a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
   b. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
   c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
   d. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
6. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
7. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
8. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

B1 CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

NO SCALE

SCHED_CONC_REBAR-01

MASONRY WALL SCHEDULE

MARK	THICKNESS	MATERIAL	SOLID GROUT	REINFORCING			COMMENTS
				VERTICAL	HORIZONTAL	JOINTS	
MW-10A	10"	CMU	YES	#5 BARS AT 24" O.C.	#6 BARS AT 48" O.C.	NONE	
MW-10B	10"	CMU	YES	#5 BARS AT 24" O.C.	#4 BARS AT 24" O.C.	NONE	FROM END WALL TO TOP OF OPENING
	10"	CMU	YES	#5 BARS AT 24" O.C.	#6 BARS AT 48" O.C.	NONE	FROM TOP OF OPENING TO TOP OF WALL
MW-12A	12"	CMU	YES	#5 BARS AT 24" O.C.	(2) #5 BARS AT 48" O.C.	NONE	
MW-12B	12"	CMU	YES	#5 BARS AT 24" O.C.	(2) #4 BARS AT 24" O.C.	NONE	FROM END WALL TO TOP OF OPENING
	12"	CMU	YES	#5 BARS AT 24" O.C.	(2) #5 BARS AT 48" O.C.	NONE	FROM TOP OF OPENING TO TOP OF WALL

MASONRY WALL NOTES:
1. COORDINATE WALL FINISHES, MATERIALS, COURSING, ETC. WITH ARCHITECTURAL DRAWINGS.
2. DO NOT SOLID GROUT WALLS UNLESS REQUIRED BY SCHEDULE, NOTES, OR DETAILS.
3. SOLID GROUT ALL MASONRY COURSES BELOW GRADE.
4. VERTICAL REINFORCING SHALL BE CENTER IN WALL (UNO).
5. PROVIDE TWO VERTICAL BARS (MIN) AT ALL CORNERS AND END OF WALLS.
6. HORIZONTAL WALL REINFORCING SHALL BE PLACED BETWEEN VERTICAL MASONRY COLUMN REINFORCING BARS.
7. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
8. MASONRY WALL NOT DESIGNATED IN THE PLANS SHALL BE REINFORCED AS FOLLOWS:

THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6"	#5 BARS AT 32" O.C.	#4 BARS AT 48" O.C.
8"	#5 BARS AT 32" O.C.	#5 BARS AT 48" O.C.
10"	#5 BARS AT 24" O.C.	#6 BARS AT 48" O.C.
12"	#5 BARS AT 24" O.C.	(2) #5 BARS AT 48" O.C.

9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

B2 MASONRY WALL SCHEDULE

NO SCALE

SCHED_MSN_WALL-01

CONCRETE WALL SCHEDULE

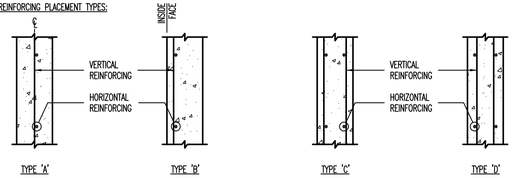
MARK	THICKNESS	REINFORCING			WALL TYPE	COMMENTS
		VERTICAL	HORIZONTAL	TOP AND BOTTOM		
CW-10	10"	#4 AT 16" O.C.	#5 AT 16" O.C.	(1) #5	A	.
CW-12	12"	#4 AT 18" O.C.E.F.	#4 AT 16" O.C.E.F.	(2) #5	C	

CONCRETE FOUNDATION WALL NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
2. CONCRETE FOUNDATION WALLS NOT DESIGNATED ON PLANS SHALL BE REINFORCED AS FOLLOWS:

THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6"	#4 BARS AT 18" O.C.	#4 BARS AT 16" O.C.
8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.
10"	#4 BARS AT 16" O.C.	#5 BARS AT 15" O.C.
12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 16" O.C. E.F.

ABBREVIATIONS:
E.F. EACH FACE
I.F. INSIDE FACE
O.F. OUTSIDE FACE

WALL REINFORCING PLACEMENT TYPES:



TYPE 'A' TYPE 'B' TYPE 'C' TYPE 'D'

A1 CONCRETE WALL SCHEDULE

NO SCALE

SCHED_CONC_WALL-01

MASONRY REINFORCING LAP SCHEDULE

BAR SIZE	(1) BAR PER CELL	(2) BARS PER CELL
#3	18"	18"
#4	24"	24"
#5	42"	42"
#6	49"	90"
#7	68"	131"
#8	97"	198"

2003 IBC

A2 MASONRY REINFORCING LAP SCHEDULE (2000psi)

NO SCALE

SCHED_MSN_REBAR_2000PSI-01

CLIENT

LTDOT CONNECTING COMMUNITIES

STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

"Engineering Results"
BHB Consulting Engineers
A Professional Corporation
2766 South Main Street
Salt Lake City, Utah 84115
Phone: 801.355.5656
Fax: 801.355.5950
Email: bhb@bhbengineers.com

PROFESSIONAL SEAL

ISSUE

MARK	DATE	DESCRIPTION
	2-09	CONSTRUCTION DOCUMENTS
	1-20-09	90% REVIEW SUBMITTAL

DFCM PROJECT NO: 08085
DFCM CONTRACT NO:
ARCHIPLEX PROJECT NO:
DRAWN BY:
CHECKED BY:
SCALE:
DATE: FEBRUARY, 2009

SHEET TITLE

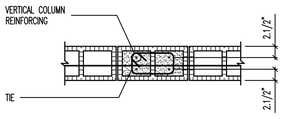
SCHEDULES

SB601

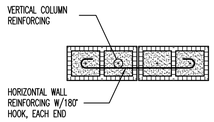
MASONRY COLUMN SCHEDULE

MARK	SIZE	REINFORCING		REINFORCING SCHEMATIC
		VERTICAL	TIES	
MC-1	10" x 16"	(4) #5	#3 AT 8" O.C.	
MC-2	10" x 24"	(6) #5	#3 AT 8" O.C.	
MC-3	10" x 48"	(6) #5	NONE	
MC-4	10" x 32"	(8) #5	#3 AT 8" O.C.	
MC-5	10" x 40"	(10) #6	#3 AT 8" O.C.	
MC-6	10" x 64"	(16) #6	#3 AT 8" O.C.	
MC-7	12" x 32"	(8) #5	#3 AT 8" O.C.	
MC-8	12" x 24"	(3) #5	NONE	
MC-9	12" x 48"	(12) #5	#3 AT 8" O.C.	
MC-10	12" x 24"	(6) #5	#3 AT 8" O.C.	
MC-11	10" x 40"	(10) #5	#3 AT 8" O.C.	
MC-12	12" x 24"	(4) #5	#3 AT 8" O.C.	STEEL COLUMN, SEE PLAN AND SCHEDULE

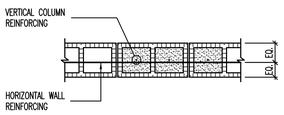
MASONRY COLUMN NOTES:
1. THE CENTERLINE OF THE VERTICAL BARS SHALL BE LOCATED 2.1/2" FROM THE FACE OF THE MASONRY. HORIZONTAL WALL REINFORCING SHALL BE LOCATED TO THE INSIDE OF THE VERTICAL BARS.
2. VERTICAL REINFORCING AND TIES SHALL EXTEND FULL HEIGHT OF WALL (UNO).
3. VERTICAL MASONRY COLUMN REINFORCING SHALL EXTEND INTO THE FOOTING AND TERMINATE WITH A STANDARD 90° HOOK. FOR CONCRETE FOUNDATION WALLS TALLER THAN 5'-0", VERTICAL COLUMN REINFORCING SHALL DOWEL 4'-0" MINIMUM INTO THE FOUNDATION WALL.
4. IN CONCRETE FOUNDATION WALLS, VERTICAL MASONRY COLUMN REINFORCING SHALL BE TIED WITH #3 TIES AT THE SAME SPACING AND CONFIGURATION AS THE MASONRY COLUMN ABOVE.
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



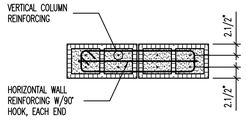
TYPICAL COLUMN CONFIGURATION SCHEMATIC



TYPICAL ISOLATED COLUMN CONFIGURATION SCHEMATIC



TYPICAL COLUMN CONFIGURATION SCHEMATIC



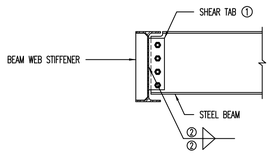
TYPICAL ISOLATED COLUMN CONFIGURATION SCHEMATIC

B1 MASONRY COLUMN SCHEDULE
SCHED_MAS_COL-01
NO SCALE

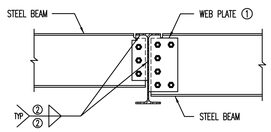
A-325 BOLT SCHEDULE

MAXIMUM BEAM SIZE IN EACH BEAM DEPTH GROUP	A-325N BOLTS	
	No. PER BEAM	SIZE
W8	2	3/4"ø
W10	2	3/4"ø
W12	3	3/4"ø
W14	3	3/4"ø
W16	4	3/4"ø
W18	5	3/4"ø
W21	6	3/4"ø
W24	7	3/4"ø
W27	8	3/4"ø
W30	9	3/4"ø

① BEAM WEB CONNECTION PLATES, THICKNESS EQUALS THE BEAM WEB THICKNESS PLUS 1/8" (3/8" MIN.)
② FILLET WELDS SHALL BE AS FOLLOWS:
ONE SIDE: PL THICKNESS MINUS 1/16" (1/4" MIN).
TWO SIDES: 1/2 PL THICKNESS PLUS 1/16" (1/4" MIN) EACH SIDE.
③ THICKNESS EQUALS BEAM FLANGE THICKNESS OF BEAM FRAMING INTO COLUMN WEB (3/8" MIN).
④ BOLT EDGE DISTANCE SHALL BE 1.1/2" MIN AT ALL EDGES. BOLT SPACING SHALL BE 3" MIN.
⑤ WHEN MORE THAN ONE ROW OF BOLTS IS NEEDED, THE FIRST ROW SHALL BE A COMPLETE ROW WITH THE REMAINDER OF THE BOLTS PLACED IN THE SECOND ROW.



BEAM TO BEAM SHEAR TAB CONNECTION



BEAM TO BEAM WEB PLATE CONNECTION

A1 TYPICAL BOLTED WEB PLATE CONNECTIONS WITH BOLT SCHEDULE [SINGLE SHEAR]
SCHED_STL_BOLT-01
NO SCALE

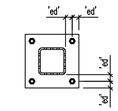
STEEL COLUMN SCHEDULE

MARK	SIZE	STEEL BASE PLATE	STEEL CAP PLATE	COMMENTS
SC-8	HSS8x8x1/4	7/8" (SBP-2)	1/4" CAP PLATE	.

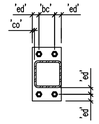
STEEL COLUMN NOTES:
1. UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED WITH (4) 3/4"ø ANCHOR RODS WITH 3" MINIMUM HOOKS. PROJECT ANCHOR RODS 3" MINIMUM ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" MINIMUM. ALL RODS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE ROD DIAMETER PLUS 5/16" SHALL HAVE 5/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.
2. ALL CAP PLATE BOLTS SHALL BE 3/4"ø A325N BOLTS, TYPICAL UNLESS NOTED OTHERWISE.
3. ANCHOR RODS SHALL NOT BE WELDED (INCLUDING TACK WELDS).
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. SEE DETAIL C1/SF512 FOR COLUMNS EMBEDDED IN MASONRY WALLS.

STEEL BASE PLATE TYPES:

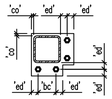
BASE PLATE LEGEND
co = 1/2" MINIMUM
ed = 1.1/2" MINIMUM
bc = 3" MINIMUM



BASE PLATE SBP-1



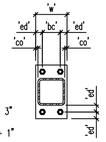
BASE PLATE SBP-2



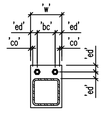
BASE PLATE SBP-3

STEEL CAP PLATE TYPES:

CAP PLATE LEGEND
co = 1/2" MINIMUM
ed = 1.1/2" MINIMUM
bc = BEAM OR GIRDER GAGE
w = BEAM OR GIRDER GAGE + 3" OR BEAM OR GIRDER WIDTH + 1" OR COLUMN WIDTH + 1" WHICHEVER IS GREATER



CAP PLATE SCP-1



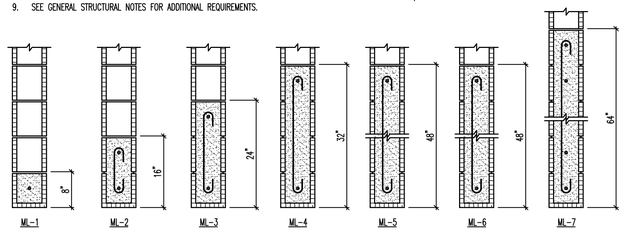
CAP PLATE SCP-2

C2 STEEL COLUMN SCHEDULE
SCHED_STL_COL-01
NO SCALE

MASONRY LINTEL SCHEDULE

MARK	DEPTH	MAXIMUM SPAN	REINFORCING		COMMENTS
			HORIZONTAL	STIRRUPS	
ML-1	8"	3'-4"	(1) #7 x CONT	NONE	.
ML-2	16"	6'-0"	(1) #7 x CONT TOP AND BOTTOM	#4 AT 8" O.C.	
ML-3	24"	8'-0"	(1) #7 x CONT TOP AND BOTTOM	#4 AT 8" O.C.	
ML-4	32"	10'-0"	(1) #7 x CONT TOP AND BOTTOM	#4 AT 8" O.C.	
ML-5	48"	–	(1) #7 CONT TOP AND BOTTOM	#4 AT 8" O.C.	
ML-6	48"	–	(1) #7 CONT TOP AND BOTTOM	(2) #4 AT 8" O.C.	
ML-7	64"	–	(2) #7 CONT TOP AND BOTTOM	(2) #4 AT 8" O.C.	

MASONRY LINTEL NOTES:
1. LINTEL WIDTH AND MATERIAL TYPE SHALL BE THE SAME AS THE WALL IN WHICH THE LINTEL IS CONSTRUCTED.
2. GROUT MASONRY LINTELS MONOLITHICALLY WITH THE SUPPORT WALL OR COLUMN AT EACH END.
3. MASONRY LINTELS ML-1 THROUGH ML-4 SHALL BE USED OVER OPENINGS IN MASONRY WALLS WHEN A SPECIFIC MASONRY LINTEL IS NOT OTHERWISE SPECIFIED. WHEN A LINTEL IS SPECIFIED ON THE PLANS, THE MAXIMUM SPAN AS NOTED IN THIS SCHEDULE SHALL NOT APPLY. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SPECIFIED ON THE PLANS WHICH HAVE A SPAN GREATER THAN 10'-0".
4. MASONRY LINTELS ML-1 THROUGH ML-4 SHALL NOT BE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR GIRDERS UNLESS NOTED OTHERWISE ON THE PLANS. JOISTS SHALL NOT BEAR ON ANY LINTEL LESS THAN 16" DEEP. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SHOWN ON THE PLANS WHICH ARE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR GIRDERS.
5. EXTEND ALL HORIZONTAL REINFORCING 48 BAR DIAMETERS MINIMUM BEYOND THE EDGE OF ALL OPENINGS. IF HORIZONTAL REINFORCING CANNOT EXTEND 48 BAR DIAMETERS BEYOND EDGE OF OPENING, PROVIDE 90° STANDARD HOOK.
6. SPLICE TOP BARS AT MIDSPAN OF LINTEL ONLY AND BOTTOM BARS OVER SUPPORTS ONLY.
7. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
8. DOWEL VERTICAL REINFORCING OF WALL ABOVE LINTEL INTO THE FULL DEPTH OF LINTEL OR 48 BAR DIAMETERS, WHICHEVER IS LESS.
9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



A2 MASONRY LINTEL SCHEDULE
SCHED_MAS_LINTL-01
NO SCALE

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Salt lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

"Engineering Results"
BHB Consulting Engineers
A Professional Corporation
2766 South Main Street
Salt Lake City, Utah 84115
Phone: 801.355.3656
Fax: 801.355.5950
Email: bhb@bhbengineers.com

PROFESSIONAL SEAL

ISSUE		
	2-09	CONSTRUCTION DOCUMENTS
	1-20-09	90% REVIEW SUBMITTAL
MARK	DATE	DESCRIPTION

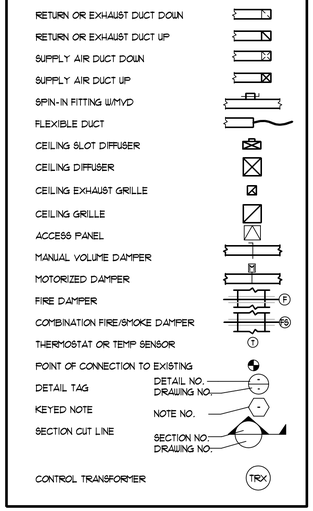
DFCM PROJECT NO:	08085
DFCM CONTRACT NO:	
ARCHIPLEX PROJECT NO:	
DRAWN BY:	
CHECKED BY:	
SCALE:	
DATE:	FEBRUARY, 2009

SHEET TITLE

SCHEDULES

SF601

MECHANICAL LEGEND
(NOT ALL USED)



GENERAL NOTES:

1. COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
2. ALL DUCTWORK SHALL RECEIVE 1" - 1.5 LBS/CU.FT. DUCT LINER, ATTACH TO DUCT WITH MECHANICAL FASTENERS AND TRIM AND SEAL JOINTS. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-1/" THICK INSULATED AND A MAXIMUM OF 6 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. NO DUCTBOARD ALLOWED.
3. ALL DUCTWORK IS TO BE LINED OR WRAPPED IF ROUND. NO DUCTBOARD IS ALLOWED.
4. DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
5. THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
6. THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH SITE CONDITIONS.
7. THIS CONTRACTOR SHALL USE SMACNA DUCT CONSTRUCTION STANDARDS FOR SHEET METAL DUCTS. ALL DUCTWORK (UNLESS OTHERWISE NOTED ON FLOOR PLANS) SHALL BE CONSTRUCTED OF 1" W.G. SEAL CLASS "B".
8. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
9. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
10. ALL DIFFUSERS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE BALANCE REPORT TO ENGINEER PRIOR TO PROJECT CLOSEOUT.
11. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
12. EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
13. HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
14. ALL RETURN AIR GRILLES SHALL HAVE SOUND BOOTS W/ LINED INSULATION. INSULATION IS TO BE PAINTED FLAT BLACK.
15. DIVISION 15 TO SUBMIT TO ENGINEER ALL AS-BUILTS OF BUILDINGS MECHANICAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.
16. WATER DISINFECTANT AND AIR BALANCE REPORT TO BE TURNED TO ENGINEER FOR REVIEW PRIOR TO SUBSTANTIAL COMPLETION WALK-THROUGH.
17. PROJECT ELEVATION IS 7676' ABOVE SEA LEVEL.
18. DO NOT SUPPORT MECHANICAL EQUIPMENT AND/OR PLUMBING FROM ROOF DECK. SUPPORT FROM BUILDING STRUCTURE OR FLOOR IS ACCEPTABLE.

GAS-FIRED RADIANT HEATERS

SYMBOL	LOCATION	INPUT BTU	WEIGHT	CONFIG	MOTOR AMPS	MOTOR VOLTS	MOTOR Φ	MOTOR CYCLES	FLUE SIZE	MAKE AND MODEL NUMBER	COMMENTS
B-1	AS SHOWN	120,000	35	SEE PLANS	1.0 RUN	120	1	60	4"Φ	ROBERTS GORDON CO-RAY-VAC #B-10	(1)(2)(3)(4)(5)(6)

(1) ROBERTS GORDON #EP-200 VACUUM PUMP, 3/4HP, 120 VOLT (2) PROVIDE FRESH AIR INTAKE (3) 7-DAY PROGRAMMABLE THERMOSTAT
(4) HEAT TREATED ALUMIZED STEEL TUBE AND POLISHED ALUMINUM REFLECTOR (5) PROPANE GAS
(6) PROVIDE SUFFICIENT LENGTH POWER CORD TO MAKE CONNECTION FROM BURNER TO ELECTRICAL OUTLET.

AIR DEVICE SCHEDULE

GRILLE NUMBER / GRILLE CFM

PLAN CODE	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX	SP	MAX. CFM	DAMPER	COLOR	MANUFACTURER & MODEL NO.	REMARKS
S-1	4-WAY SUPPLY	6"Φ	SEE PLANS	20	0.05	176	IN DUCT	WHITE	PRICE #5CDA	(1)(3)(4)
S-2	4-WAY SUPPLY	8"Φ	SEE PLANS	20	0.05	280	IN DUCT	WHITE	PRICE #5CDA	(2)(3)(4)
S-3	4-WAY SUPPLY	10"Φ	SEE PLANS	21	0.05	436	IN DUCT	WHITE	PRICE #5CDA	(2)(3)(4)
R-1	RETURN	12"x12"	SEE PLANS	15	0.06	680	OBD	WHITE	PRICE #80D	(4)
T-1	TRANSFER GRILLE	12" X 12"	SEE PLANS	15	0.06	N.A.	N.A.	WHITE	PRICE #80D	(4)

(1) 12" X 12" FACE MODULE (2) 24" X 24" FACE MODULE (3) 3 CONCENTRIC CONES (4) SET FOR HORIZONTAL DISCHARGE
* NOT ALL DEVICES ARE USED

FURNACE SCHEDULE

SYMBOL	INPUT BTU	OUTPUT BTU (2)	CFM	EXT S.P.	FAN SPEED	FILTER NO.	FILTER SIZE	MOTOR HP	MOTOR Φ	MOTOR CYCLES	MOTOR VOLT	MOTOR DRIVE	MANUFACTURER AND MODEL NO.	COMMENTS
F-1	40,000	31,464	600	0.5	1075 RPM	1	17"x25"x1"	1/5	60	1	115	DIRECT	TRANE #TUX1B040A9241	(1)(3)(4)(5)(6)(7)

(1) AFUE - 93 (2) AT ELEVATION (3) R410A (4) PROVIDE W/TXCB025003HC EVAPORATOR (5) PROPANE GAS KIT (6) CONCENTRIC VENT KIT
(7) CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER

EXHAUST FAN SCHEDULE

SYMBOL	NO. REQ'D	LOCATION	CFM	TOTAL SP	LB'S	SONES	ROOF OR WALL OPENING	MOTOR HP	MOTOR Φ	MOTOR CYCLES	MOTOR VOLTS	MOTOR RPM	COMMENTS
EF-1	AS SHOWN	RESTROOM	100	0.25	15	2.5	6"Φ	50 WATTS	1	60	120	1200	COOK #GC-140 (3)(4)(5)
EF-2	AS SHOWN	VEHICLE SVC BAY	5900	0.25	345	22	43" SQ.	1.5	1	60	208	646	COOK #36XLPH (1)(2)(6)(7)

(1) PROVIDE INSULATED HOUSING AROUND MOTOR (2) CONTROL WITH CARBON MONOXIDE DETECTOR THROUGH ON/AUTO SWITCH (3) CEILING GRILLE
(4) COOK WCA-2 WALL CAP AND DAMPER, WHITE IN COLOR (5) CONTROL WITH LIGHT SWITCH (6) MOTORIZED DAMPER. INTERLOCK DAMPER WITH FAN MOTOR
(7) SAFETY INLET SCREEN

LOUVER SCHEDULE L-

PLAN CODE	SYSTEM SERVED	MANUFACTURER & MODEL NO.	CFM	VELOCITY FPM	FREE AREA (SF)	DIMENSIONS (W x H) (IN)	COLOR	COMMENTS
L-1	INLET	RUSKIN # ELF81530	5900	541	10.90	56 x 56	WHITE	
L-2	INLET	RUSKIN # ELF81530	5900	871	6.77	48 x 48	WHITE	

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STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PVE Inc. Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
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DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
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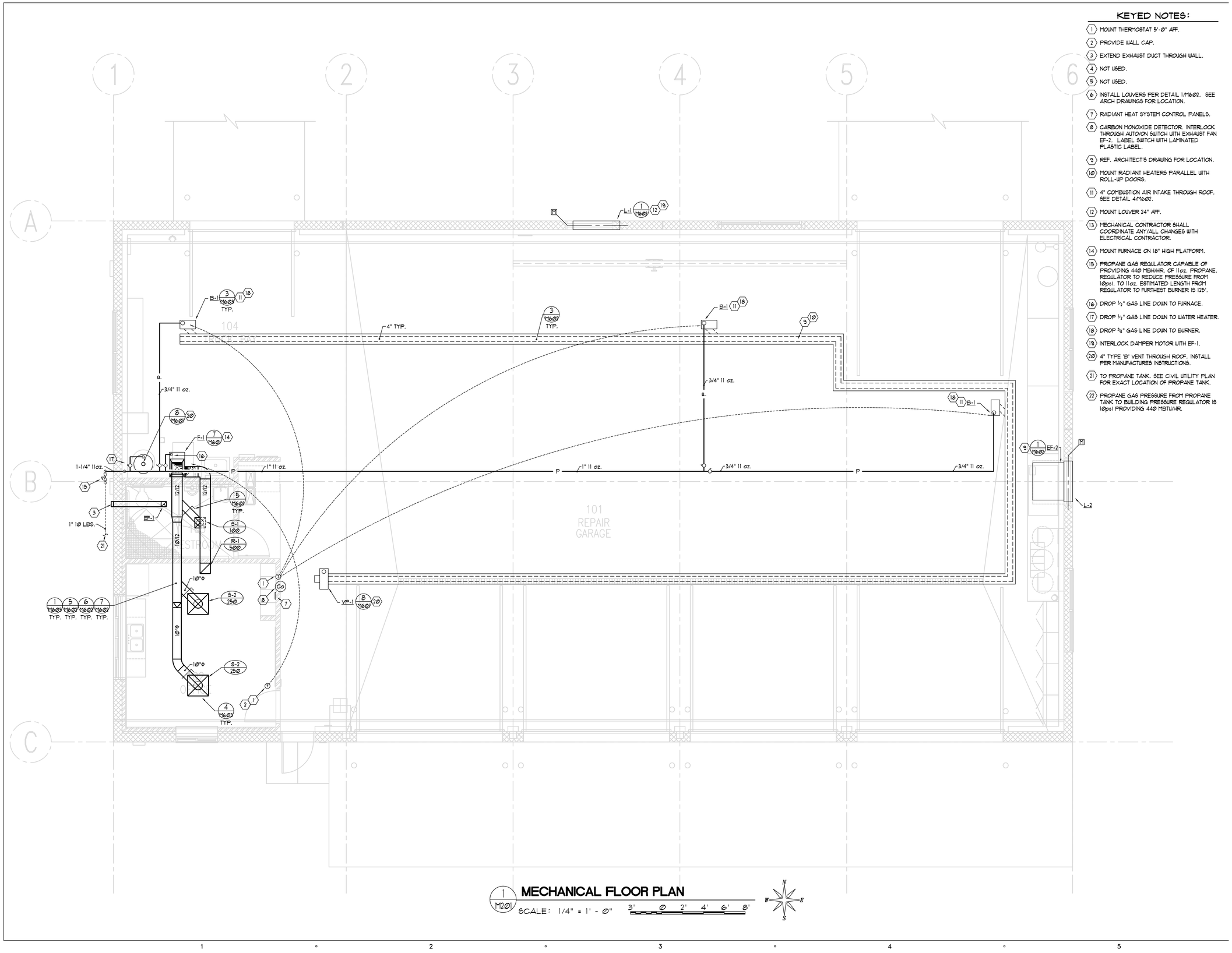
CHECKED BY:	ADS
SCALE:	
DATE:	FEBRUARY, 2009

SHEET TITLE

MECHANICAL LEGEND AND SCHEDULES

M001



KEYED NOTES:

1. MOUNT THERMOSTAT 5'-0" AFF.
2. PROVIDE WALL CAP.
3. EXTEND EXHAUST DUCT THROUGH WALL.
4. NOT USED.
5. NOT USED.
6. INSTALL LOUVERS PER DETAIL 1/M602. SEE ARCH DRAWINGS FOR LOCATION.
7. RADIANT HEAT SYSTEM CONTROL PANELS.
8. CARBON MONOXIDE DETECTOR. INTERLOCK THROUGH AUTO/ON SWITCH WITH EXHAUST FAN EF-2. LABEL SWITCH WITH LAMINATED PLASTIC LABEL.
9. REF. ARCHITECT'S DRAWING FOR LOCATION.
10. MOUNT RADIANT HEATERS PARALLEL WITH ROLL-UP DOORS.
11. 4" COMBUSTION AIR INTAKE THROUGH ROOF. SEE DETAIL 4/M602.
12. MOUNT LOUVER 24" AFF.
13. MECHANICAL CONTRACTOR SHALL COORDINATE ANY/ALL CHANGES WITH ELECTRICAL CONTRACTOR.
14. MOUNT FURNACE ON 18" HIGH PLATFORM.
15. PROPANE GAS REGULATOR CAPABLE OF PROVIDING 440 MBH/HR. OF 11oz. PROPANE. REGULATOR TO REDUCE PRESSURE FROM 10psi. TO 11oz. ESTIMATED LENGTH FROM REGULATOR TO FURTHEST BURNER IS 125'.
16. DROP ½" GAS LINE DOWN TO FURNACE.
17. DROP ½" GAS LINE DOWN TO WATER HEATER.
18. DROP ¾" GAS LINE DOWN TO BURNER.
19. INTERLOCK DAMPER MOTOR WITH EF-1.
20. 4" TYPE 'B' VENT THROUGH ROOF. INSTALL PER MANUFACTURES INSTRUCTIONS.
21. TO PROPANE TANK. SEE CIVIL UTILITY PLAN FOR EXACT LOCATION OF PROPANE TANK.
22. PROPANE GAS PRESSURE FROM PROPANE TANK TO BUILDING PRESSURE REGULATOR IS 10psi PROVIDING 440 MBTU/HR.

1 M201 MECHANICAL FLOOR PLAN

SCALE: 1/4" = 1' - 0"

3' 0 2' 4' 6' 8'

N E S

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STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

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MECHANICAL FLOOR PLAN

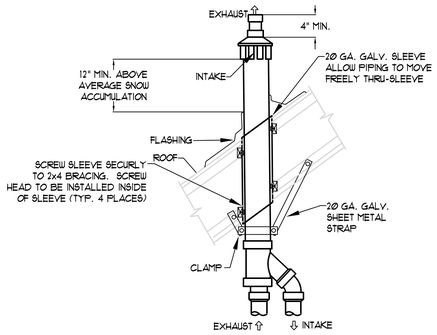
M201

NOT USED

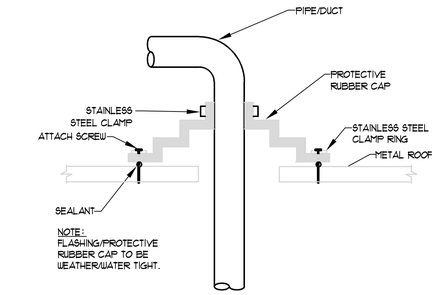
1 M601 NO SCALE

NOT USED

2 M601 NO SCALE

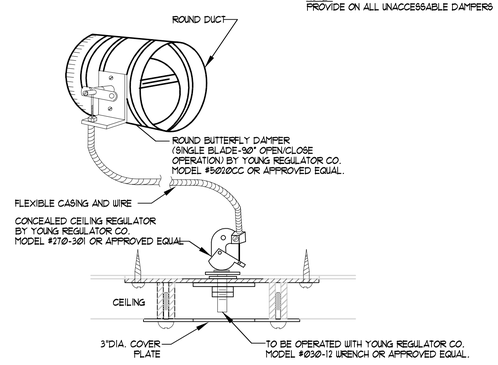


3 M601 CONCENTRIC ROOF TEMINATION DETAIL — NO SCALE

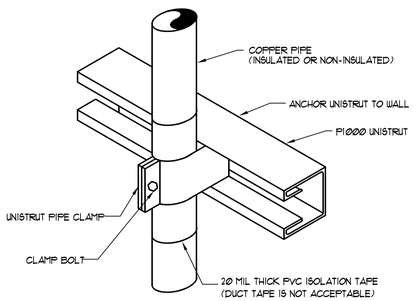


4 M601 METAL ROOF PENETRATION DETAIL — NO SCALE

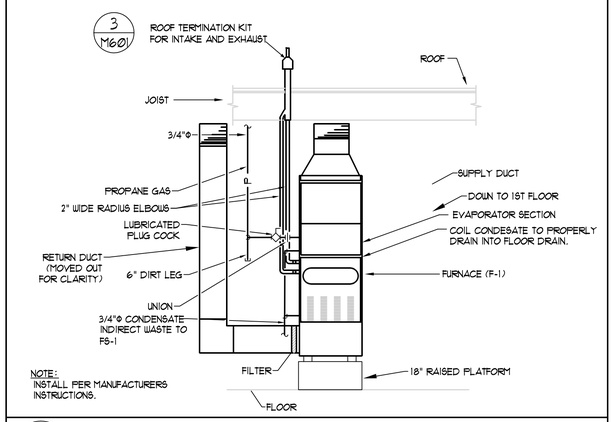
NOTE:
PROVIDE ON ALL UNACCESSABLE DAMPERS



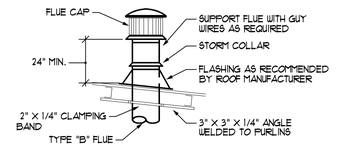
5 M601 DAMPER AND REGULATOR DETAIL — NO SCALE



6 M601 PIPE SUPPORT DETAIL — NO SCALE



7 M601 90% EFFICIENT FURNACE DETAIL — NO SCALE



8 M601 FLUE CAP DETAIL — NO SCALE

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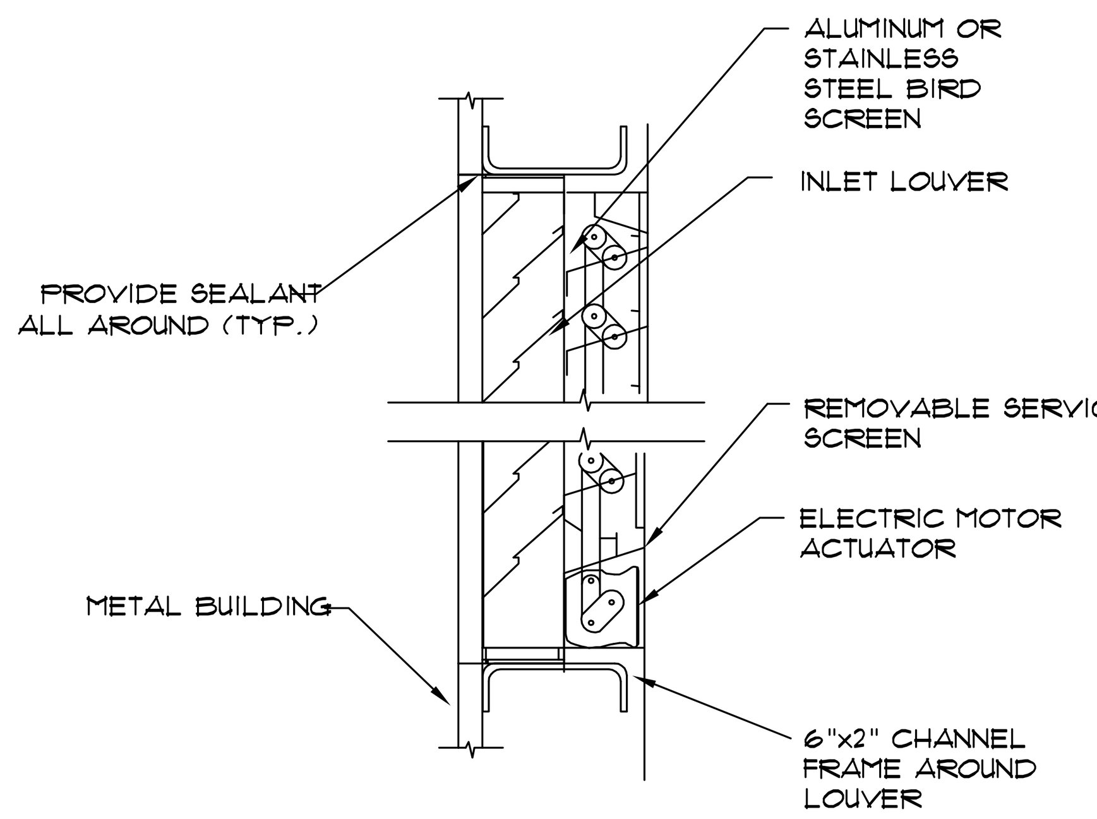
MECHANICAL DETAILS

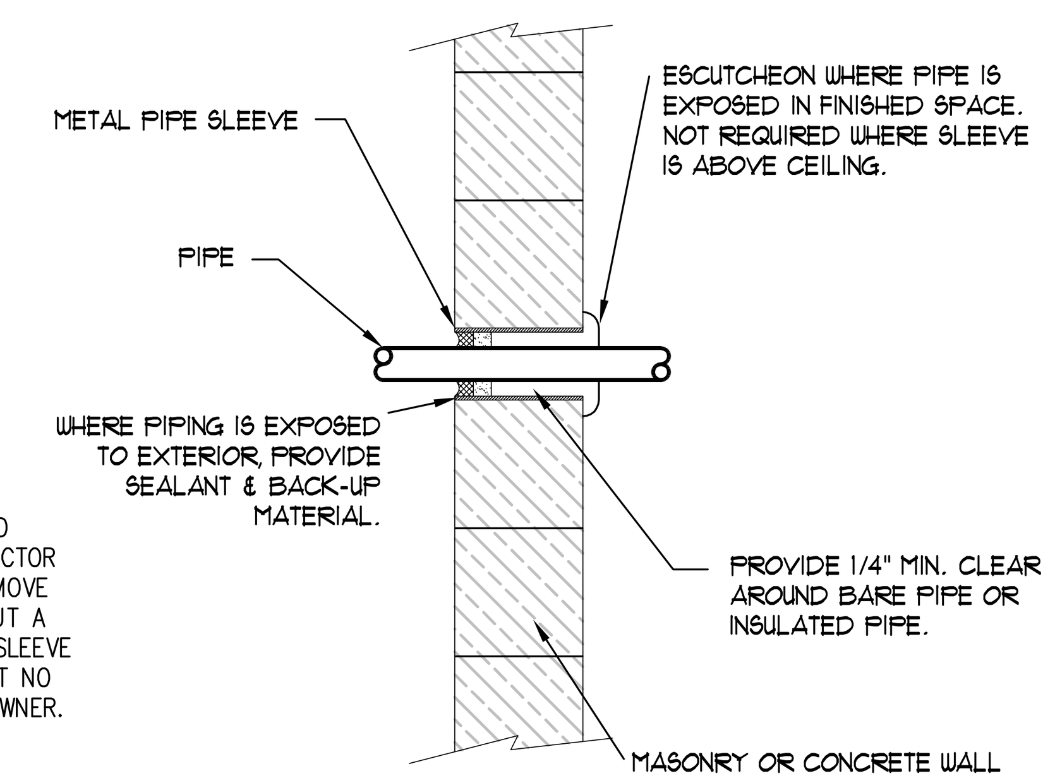
M601



1/M602 OUTLET / INLET LOUVER DETAIL

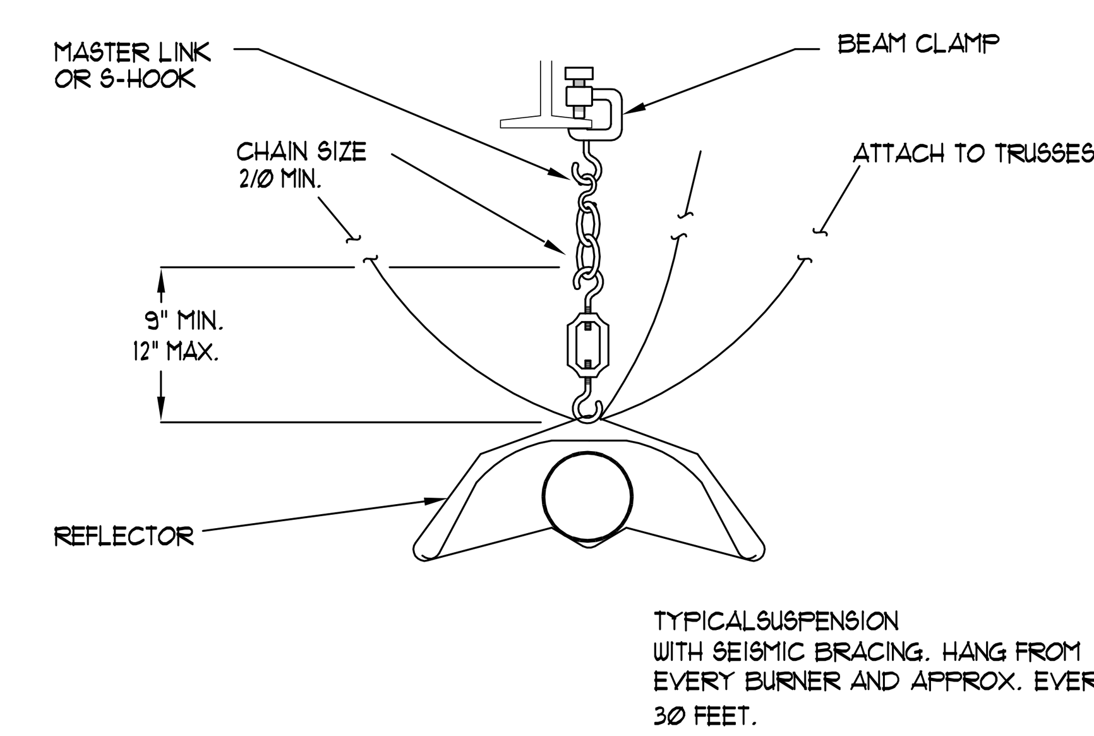
NO SCALE

NOTE:
PIPE SLEEVES ARE REQUIRED ON THIS PROJECT. CONTRACTOR SHALL BE REQUIRED TO REMOVE ANY PIPE INSTALLED WITHOUT A PIPE SLEEVE, INSTALL THE SLEEVE AND REINSTALL THE PIPE AT NO ADDITIONAL COST TO THE OWNER.



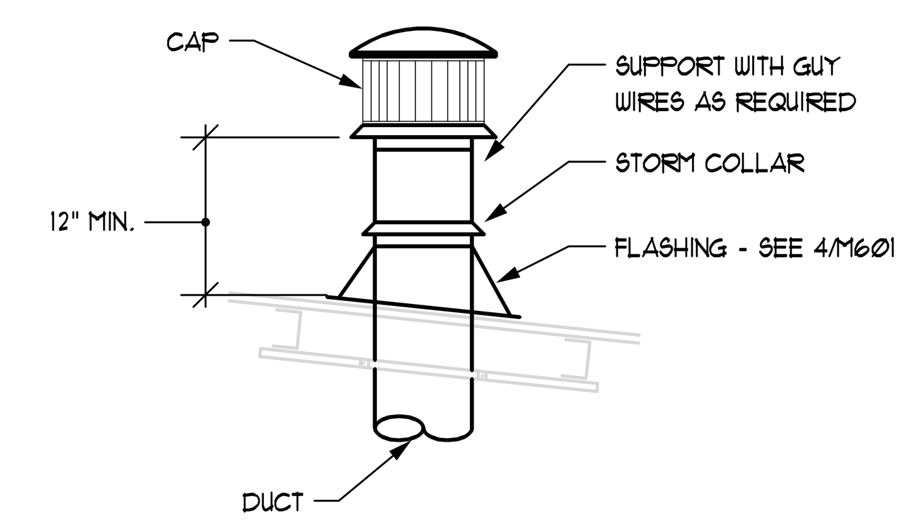
2/M602 PIPE THRU WALL ABOVE GRADE

NO SCALE



3/M602 RADIANT HEATING SEISMIC DETAIL

NO SCALE



4/M602 INTAKE VENT PIPE DETAIL

NO SCALE

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE & MAXIMUM LONGITUDINAL SPACING BETWEEN JOINTS &/OR INTERMEDIATE REINFORCING	MIN. H, IN.	DRIVE SLIP / PLAIN S SLIP RECOM-MENDED GAGE	HEMMED S SLIP RECOM-MENDED GAGE	ALTERNT. BAR SLIP RECOM-MENDED GAGE	REINFOR. BAR SLIP RECOM-MENDED GAGE	BAR SLIP / ANGLE SLIP RECOM-MENDED GAGE	BAR SLIP / ANGLE SLIP REINFORCED ANGLE SIZE	STAND. SEAM / ANGLE REINFOR. STAND.SEAM REINFORCED ANGLE SIZE	POCKET LOCK RECOM-MENDED GAGE	ANGLE REINFORCED POCKET LOCK REINFORCED ANGLE SIZE
				TRANSVERSE REINFORCING ① AT JOINTS								
UP THRU 12	26	NONE REQ.	1	26	26	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.
13 – 18	24	NONE REQ.	1	24	24	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.
19 – 30	24	1X1X1/8 @ 60"	1	–	24	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.
31 – 42	22	1X1X1/8 @ 60"	1	–	–	22	22	22	NOT REQ.	NOT REQ.	22	NOT REQ.
43 – 54	22	1.5X1.5X1/8@60"	1 1/2	–	–	22	22	22	1.5X1.5X1/8	NOT REQ.	22	NOT REQ.
55 – 60	20	1.5X1.5X1/8@60"	1 1/2	–	–	–	22	22	1.5X1.5X1/8	NOT REQ.	22	NOT REQ.
61 – 84	20	1.5X1.5X1/8@30"	1 1/2	–	–	–	22	22	1.5X1.5X1/8	1.5X1.5X1/8	22	1.5X1.5X1/8

① TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED

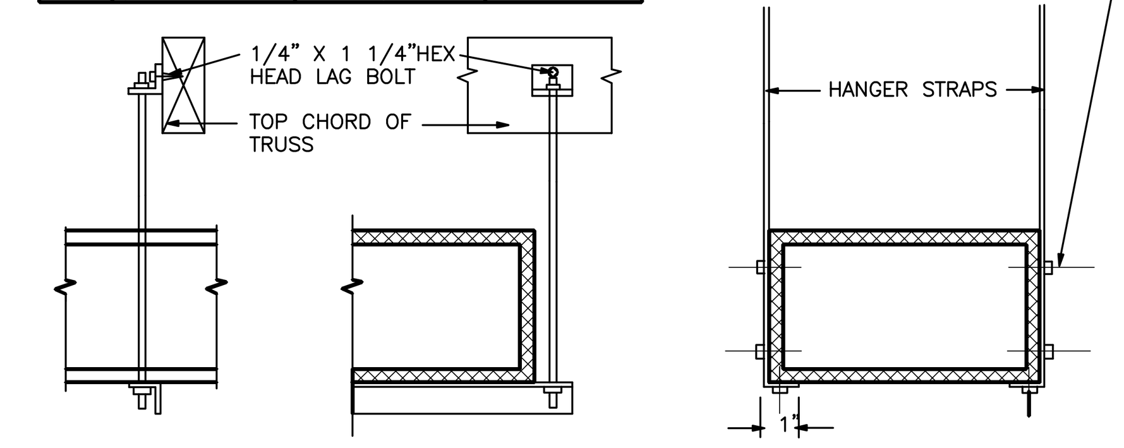
5/M602 DUCT CONSTRUCTION DETAIL

NO SCALE

HANGER SIZES FOR RECTANGULAR DUCT

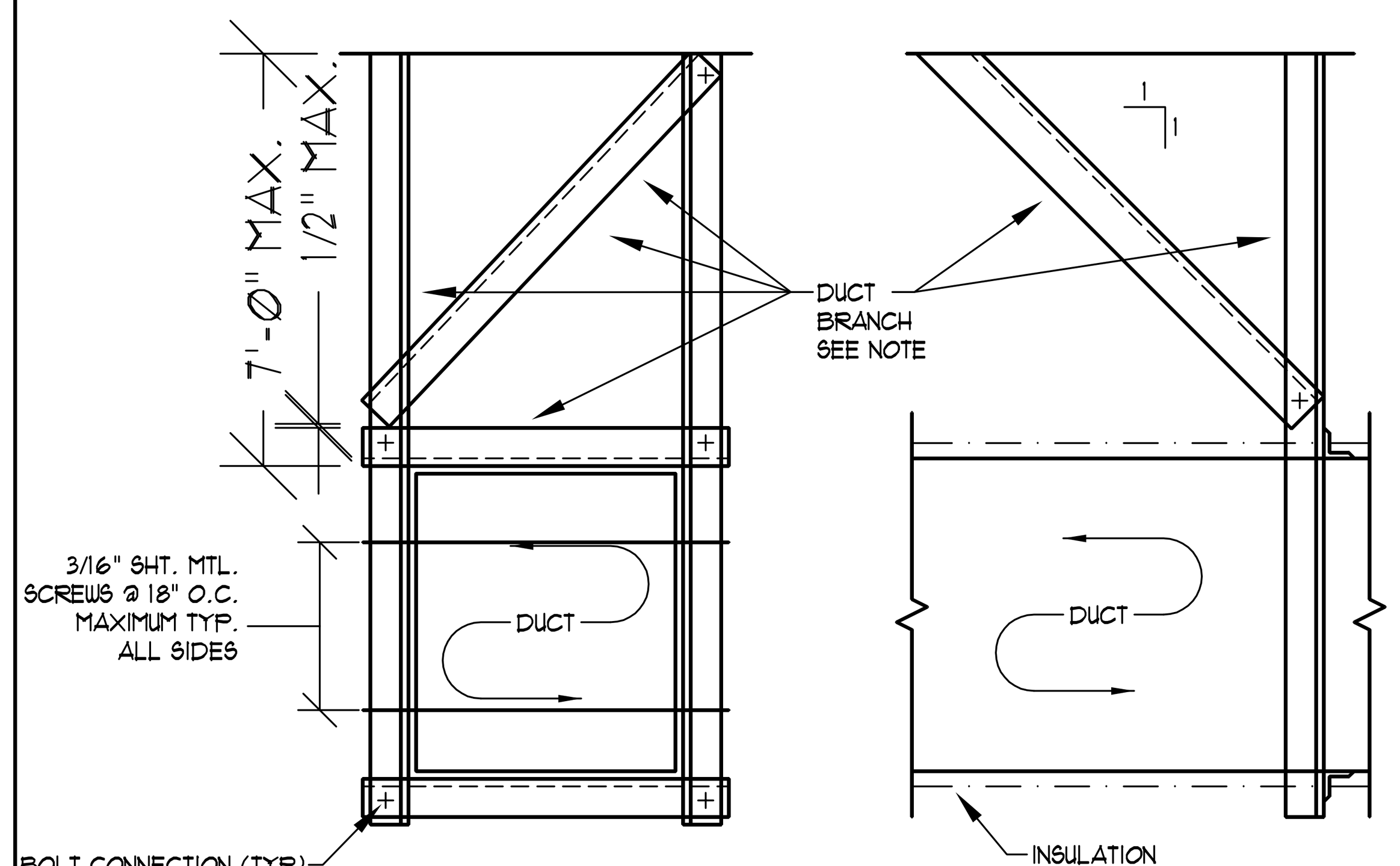
MAX. SIDE	HANGER	HORIZANTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1"X18" GAGE STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1 1/2" X 1 1/2" X 1/8"	8'-0"
48"	1/4" ROUND ROD	2" X 2" X 1/8"	8'-0"
60"	5/16" ROUND ROD	2" X 2" X 1/8"	8'-0"
84"	3/8" ROUND ROD	2" X 2" X 1/8"	8'-0"

NO POP RIVETS ALLOWED



6/M602 DUCT STRAP HANGER DETAIL

NO SCALE



SCHEDULE "A" BRACING OF RECTANGULAR DUCTS

DUCT SIZE INCHES	VERTICAL ANGLES	DIAGONAL ANGLES	HORIZONTAL ANGLES	LONGITUDINAL ANGLES	BOLT SIZE **	WT. PER LINEAR FOOT
3Ø" SQ.	2-1/2" X 2-1/2" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	2" X 2" X 16 GA.	3" X 3" X GA.	1/4"Φ	13
42" SQ.	4" X 4" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	D.O.	3/8"Φ	2Ø
54" SQ.	4" X 4" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	D.O.	3/8"Φ	27
6Ø" SQ.	4" X 4" X 12 GA.	3" X 3" X 16 GA.	3" X 3" X 16 GA.	D.O.	3/8"Φ	36
84" SQ.	4" X 4" X 1/4"	4" X 4" X 14 GA.	4" X 4" X 14 GA.	D.O.	3/8"Φ	53
96" SQ.	5" X 3" X 1/4"	4" X 4" X 12 GA.	4" X 4" X 12 GA.	D.O.	1/2"Φ	3Ø

* MAXIMUM DIMENSION OF DUCT SHALL GOVERN WHAT BRACING REQUIRED.
EX: A 42" X 32" DUCT SHALL BE BRACED AS A 42" SQ. DUCT.

** MINIMUM EDGE DISTANCE FOR BOLTS:
1/4"Φ - 1" 5/8"Φ - 1-1/8"
3/8"Φ - 1" 3/4"Φ - 1-1/4"
1/2"Φ - 1" 7/8"Φ - 1-1/2"

DUCT BRACING NOTES:

1. DESIGN RESTRAINTS PER SEISMIC ZONE 3.
2. REFERENCE SMACNA SEISMIC RESTRAINT MANUAL.
3. FOR DUCTWORK REQUIRING SEISMIC BRACING, INSTALL BRACES AS FOLLOWS:
   a. TRANSVERSE BRACE AT EACH DUCT CHANGE OF DIRECTION, END OF DUCT RUN, AND AT 3Ø'-Ø" O.C. FOR STRAIGHT RUNS.
   b. LONGITUDINAL BRACE AT 6Ø'-Ø" O.C.
   c. TRANSVERSE BRACING OF ONE DUCT SECTION MAY ACT AS A LONGITUDAL BRACE FOR A DUCT SECTION CONNECTED PERPENDICULAR TO IT, PROVIDING THE BRACE IS INSTALLED WITHIN FOUR FEET OF THE INTERSECTION AND IS SIZED FOR THE LARGEST DUCT.
   d. WALLS WHICH HAVE DUCTS PASSING THROUGH THEM MAY SUBSTITUTE FOR A TRANSVERSE BRACE.
   e. DO NOT USE JOIST BRIDGING FOR SUPPORT OF ANY LOAD.
   f. IF SUPPORTING LOADS ABOVE 5Ø LBS. BETWEEN JOIST PANEL POINTS REINFORCE BOTTOM CORD OF JOIST AS PER STRUCTURAL ENGINEERS REQUIREMENTS. REFER TO SUPPORT DETAILS ON STRUCTURAL DRAWINGS.

7/M602 SEISMIC RESTRAINT OF DUCTS DETAIL

NO SCALE

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STATION #4435A
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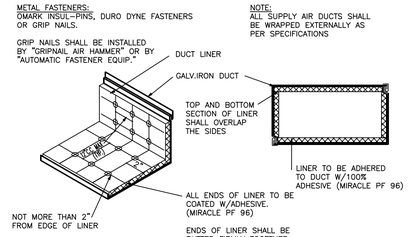
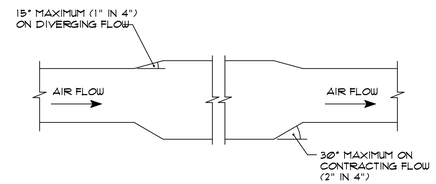
MECHINCAL DETAILS

M602



1 M603 **DUCT LINER DETAIL**

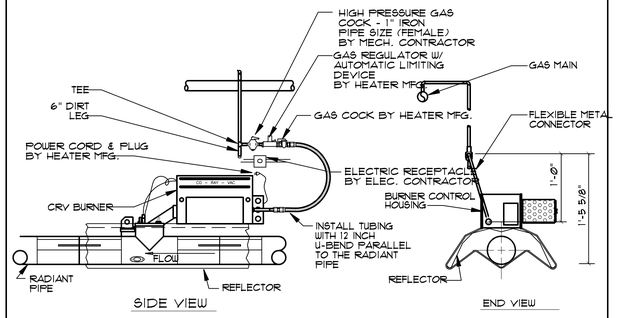
NO SCALE



NOTE:
THE 15° MAXIMUM TRANSITION ANGLE NOTED ON THIS DETAIL IS MORE RESTRICTIVE THAN THE SMACNA ALLOWANCE OF 20°.

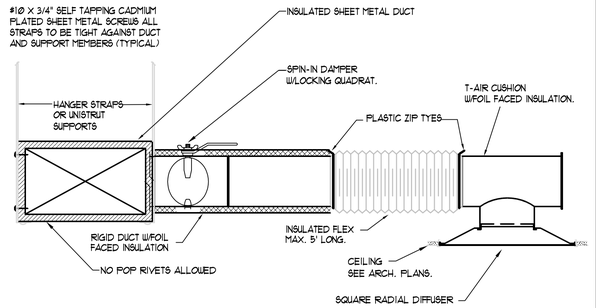
2 M603 **CONVERGING AND DIVERGING TRANSITIONS**

NO SCALE



3 M603 **GAS CONNECTION TO CRV BURNER DETAIL**

NO SCALE



4 M603 **DIFFUSER MOUNTING DETAIL (SQUARE)**

NO SCALE

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

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MARK	DATE	DESCRIPTION
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ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	JB
CHECKED BY:	ADS
SCALE:	
DATE:	FEBRUARY, 2009

SHEET TITLE

MECHANICAL DETAILS

M603

PIPING LEGEND
(NOT ALL USED)

Item	Symbol	Item	Symbol
GATE VALVE		CHILLED WATER SUPPLY	CHS
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	CHR
BALL VALVE		CONDENSER WATER SUPPLY	CWS
BUTTERFLY VALVE		CONDENSER WATER RETURN	CWR
MOTORIZED BUTTERFLY VALVE	M	HEATING WATER SUPPLY	HWS
HEAT TRACING		HEATING WATER RETURN	HWR
DEIONIZED WATER	DI	WATER TREATMENT	WT
CHECK VALVE		FIRE DEPT. HORN & LIGHT	
SOLENOID VALVE		HOT GAS	HG
AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION	
AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER	RPBP
PRESSURE REDUCING VALVE		DIRECTION OF FLOW	
P & T RELIEF VALVE		ELBOW DOWN (DN)	
AIR VENT (AUTOMATIC)		ELBOW UP	
REFRIGERANT LIQUID	RL	PIPE CAP	
REFRIGERANT SUCTION	RS	TEE DOWN	
THERMAL EXPANSION VALVE		UNION	
STRAINER		DOMESTIC COLD WATER	
CIRCUIT SETTER		DOMESTIC HOT WATER	
FLOW METER		HOT WATER CIRC.	
PET COCK OR GAUGE COCK		TEMPERED WATER	T
PRESSURE GAUGE W/GAUGE COCK		SANITARY (PLBG) VENT	
THERMOMETER		SANITARY SEWER ABOVE GRADE	
TEMPERATURE & PRESSURE TEST PLUG		SANITARY SEWER BELOW GRADE	
IN-LINE PUMP		DRAIN	D
FLOW SWITCH	F	ROOF DRAIN PIPING	RD
AQUASTAT	A	OVERFLOW DRAIN PIPING	OD
HOSE BIBB OR SILLCOCK		STORM DRAIN PIPING ABOVE GRADE	SD
VACUUM	V	STORM DRAIN PIPING BELOW GRADE	SD
FLOOR DRAIN		FIRE SERVICE	F
FLOOR SINK		NATURAL GAS	G
HOT GAS BYPASS	HGBP	COMPRESSED AIR	CA
WALL CLEANOUT OR CLEANOUT		VENT THROUGH ROOF	
FLOOR OR GRADE CLEANOUT		STEAM	S
GRADE CLEANOUT W/ CONCRETE PAD		CONDENSATE	C
		WASTE OIL	WO

GENERAL NOTES:

1. COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
2. DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
3. THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
4. THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH SITE CONDITIONS.
5. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
6. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
7. ALL DOMESTIC COLD AND DOMESTIC HEATING WATER PIPING SHALL BE TYPE 'L' COPPER. ALL WASTE AND VENT PIPING SHALL BE CAST IRON. ALL ROOF AND OVERFLOW DRAINAGE PIPING TO BE CAST IRON.
8. PROVIDE INSULATION FOR THE FOLLOWING:
   a. DOMESTIC HOT WATER PIPING AND HOT WATER RECIRCULATION PIPING:
   1" THICK FOR ALL PIPE SIZES.
   b. DOMESTIC COLD WATER PIPING:
   ½" THICK FOR PIPE SIZES ½" TO 6".
   (PROVIDE CONTINUOUS VAPOR BARRIER.)
9. INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25/INCH THICKNESS AT 75°F.
10. EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
11. HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
12. DIVISION 15 TO SUBMIT TO ENGINEER ALL AS-BUILTS OF BUILDINGS MECHANCIAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.
13. WATER DISINFECTANT AND AIR BALANCE REPORT TO BE TURNED TO ENGINEER FOR REVIEW PRIOR TO SUBSTANTIAL COMPLETION WALK-THROUGH.
14. PROJECT ELEVATION IS 7676' ABOVE SEA LEVEL.
15. DO NOT SUPPORT MECHANICAL EQUIPMENT AND/OR PLUMBING FROM ROOF DECK. SUPPORT FROM BUILDING STRUCTURE OR FLOOR IS ACCEPTABLE.

PLUMBING FIXTURE CONNECTION SCHEDULE

PLAN CODE	DESCRIPTION	CONNECTION SIZE C.W.	H.W.	WASTE	VENT	TRAP	COMMENTS
WC-1	WATER CLOSET	1/2"	-	4"	2"	INT.	FLOOR MOUNTED TANK TYPE, CRANE - HYMONT #31055, 18 INCH RIM HEIGHT, MAXIMUM WATER USAGE OF 1.6 GALLON'S PER FLUSH. TANK TO HAVE PRESSURE ASSISTED FLUSH. SEAT - PROVIDE SPLIT FRONT TYPE WITH CHECK HINGE, BEMIS #1955C PROVIDE CHROME PLATED SUPPLY AND STOP
L-1	LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	WALL MOUNTED, CRANE #1412V, HANDICAP TYPE, VITREOUS CHINA, SELF SUPPORTING FIXTURE, SIZE 24"X21". FAUCET AND DRAIN - SYMMONS S-6080 WITH DRAIN GRID, BATTERY OPERATED WITH BATTERY INSIDE BODY OF FAUCET. PROVIDE CHROME PLATED SUPPLIES AND STOPS. DEARBORN, 17 GA TUBE "P" TRAP, CHROME PLATED. FITTINGS AND TRAP TO BE INSULATED TO MEET ADA REQUIREMENTS PROVIDE MCGUIRES PROWRAP. PROVIDE WITH CARRIER.
S-1	UTILITY SINK	1/2"	1/2"	3"	1-1/2"	3"	ELKAY ESSW 2520-C, WALL MOUNTED 304 14 GAUGE STAINLESS STEEL SERVICE SINK WITH HOSE THREAD, VACUUM BREAKER, WALL BRACKET AND PAIL HOOK SPOUT AND LK173 CAST IRON P-TRAP.
U-1	URINAL	3/4"	-	2"	1-1/2"	INT.	WALL MOUNTED URINAL CRANE #7197, 1.0 GPF. VITEROUS CHINA, MOUNT 17" A.F.F. TO MEET ADA REQUIREMENTS. PROVIDE WITH SLOAN #8186 G2 OPTIMA PLUS BATTERY OPERATED FLUSHMETER, FLUSHMETER TO HAVE MANUAL OVERRIDE (URINAL SHALL FIT SPACE AVAILABLE.) PROVIDE CARRIER.
HB-1	HOSE BIBB	3/4"	-	-	-	-	SINGLE SPOUT WITH HOSE CONNECTION. PROVIDE WITH VACUUM BREAKER AND METAL HANDLE. (PLASTIC HANDLES ARE NOT ACCEPTABLE). CHICAGO MODEL NO. 293 WITH E27 VACUUM BREAKER
WH-1	WALL HYDRANT	3/4"	-	-	-	-	WADE W8600,175, NON-FREEZE WALL HYDRANT WITH NICKEL BRONZE BOX, COMPLETE WITH CHROME PLATED LOCKING COVER AND BOX WITH INTEGRAL VACUUM BREAKER. WALL HYDRANT TO BE SIZED FOR WALL THICKNESS.
FD-1	FLOOR DRAIN	-	-	3"	1-1/2"	2"	FLOOR DRAIN J.R. SMITH #2005-A. WITH NICKEL BRONZE STRAINER, DEEP SEAL TRAP AND PROSET TRAP GUARD.
S-2	DOUBLE COMPARTMENT SINK	1/2"	1/2"	2"	1-1/2"	2"	JUST #DL-ADA-2233-A-GR, STAINLESS STEEL DOUBLE COMPARTMENT, SELF RIMMING, SIZE 22"X33" OD WITH TWO COMPARTMENTS THAT ARE 16"X14"X8" DEEP, MATERIAL - 18 GAUGE TYPE 304 STAINLESS STEEL, SEAMLESS DIE DRAWN. INTERIOR SURFACES POLISHED TO A NON-POROUS FINISH. UNDERSIDE TO BE FULLY COATED INSULATED FOR SOUND AND CONDENSATION REDUCTION. FAUCET AND DRAIN - GOOSENECK WITH SPRAY. JUST JWF-201 WITH TEAR DROP HANDLES AND JB-99 DRAIN OR APPROVED EQUAL. PROVIDE WITH CHROME PLATED SUPPLY AND STOPS. DEARBORN 17 GA TUBE "P" TRAP, CHROME PLATED.
FS-1	FLOOR SINK	-	-	2"	1-1/2"	2"	FLOOR SINK J.R. SMITH #3020. COMPLETE WITH ACID RESISTANT COATED INTERIOR AND POLISHED ALUMINUM DOME BOTTOM STRAINER. PROVIDE PROSET TRAP GUARD IN THE BOTTOM OF THE FLOOR SINK.
DF-1	DRINKING FOUNTAIN	1/2"	-	2"	1-1/2"	1-1/2"	BI-LEVEL, ADA COMPLIANT WATER COOLER DRINKING FOUNTAIN, ACORN #A112108F, 8 GPH, 304 STAINLESS STEEL TOP, GRANITE POWDER COATED GALVANIZED CABINET. POLISHED CHROME PLATED BRASS BUBBLER, CONCEALED SUPPORT CARRIER, GLASS FILLER WITH LEVEL HANDLE, 100 MESH INLET STRAINER, 120 VOLT, 400 WATTS.
TD-1	TRENCH DRAIN	-	-	3"	2"	3"	TRENCH DRAIN J.R. SMITH #9931, COMPLETE WITH HEAVY DUTY FRAME, LOAD CLASS C STAINLESS STEEL SLOTTED GRATE, FULLY SLOPED CHANNELS.
TMV-1	TEMPERATURE MIXING VALVE	3/4"	3/4"	-	-	-	EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE. BRADLEY #S19-2100 COMPLETE WITH CHROME PLATED FINISH, STAINLESS STEEL SURFACE MOUNTED BOX, INTEGRAL STRAINER CHECK STOPS ON INLET BUILT IN COLD WATER BYPASS, HOT WATER SHUT OFF WHEN COLD SUPPLY IS LOST, OUTLET TEMPERATURE GAUGE. 25 GPM @ 15 PSI PRESSURE DROP. SET TEMPERATURE TO 85°.
WOT-1	WASTE OIL TANK	-	-	1-1/2"	-	-	WASTE OIL TANK 10 GAUGE, WESTECH LUBE CUBE PRODUCT CODE #LCAA1280DS000, 280 GALLON, 4'x3"Lx2'-8"Wx3'-10"T. UL #142 AND NFPA 30. DOUBLE-WALL, SKID MOUNT, EMERGANCY VENT OPENING, SKID MOUNT, LIFTING LUGS, INDUSTRIAL EPOXY COATING. INTERIOR COATING. PROVIDE WITH LINCOLN 85627 1" ALUMINUM DIAGHRAM PUMP AND LINCOLN #84816 4-WAY VALVE. INSTALL TANK, PUMP AND VALVE PER MANUFACTURERS INSTRUCTIONS.
ES-1	EMERGENCY EYEWASH & SHOWER	1-1/4"	-	-	-	-	BRADLEY S19-310SBFW, FLOOR MOUNTED SAFETY STATION COMBINATION EYEWASH AND EMERGENCY SHOWER. ALUMINUM FLOOR FLANGE AND GALVANIZED INTERMEDIATE PIPE AND FITTINGS, TWO SOFT STREAM OUTLET HEADS, STAINLESS STEEL BOWL AND STAY OPEN TYPE VALVE ON EYEWASH, ORANGE CYCOLAC PLASTIC SHOWER HEAD WITH STAY OPEN VALVE (OPERATED BY PULL ROD AND HANDLE), 1-1/4" IPS FEMALE INLET AND OUTLET.

GAS FIRED WATER HEATER SCHEDULE

SYMBOL	MFR. CATALOG NO.	SERVICE	CAPACITY GALLONS	FUEL GAS	INPUT BTU	RECOV GPH	TANK SIZE	TEMP F IN/OUT	FLUE SIZE	REMARKS
GWH-1	A.O. SMITH #GVR-50	HOT WATER	50	PROPANE	37,000	41	22"Φx61" TALL	40°/140°	4"	(1) (2) (3) (4)

(1) PROVIDE WITH EXPANSION TANK. A.O. SMITH-AMTROL ST-5-2 GAL, 8"Φx12"H (2) 80% EFFICIENCY (3) TYPE B FLUE (4) INSTALL PER MANUFACTURERS REQUIREMENTS

CIRCULATION PUMP SCHEDULE CP-

PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR H.P.	MOTOR VOLTAGE & PHASE	MANUFACTURER & MODEL NO.	COMMENTS
CP-1	DOMESTIC HOT WATER RECIRCULATION	1	4	3250	1/40	115	TACO #003PNP	SEE HOT WATER HEATER DETAIL FOR INSTALLATION REQ.

CLIENT

UDOT CONNECTING COMMUNITIES
STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture • planning • design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PVE Inc.
Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
ALAN D. SPENDLOVE
166911
STATE OF UTAH

ISSUE

MARK	DATE	DESCRIPTION
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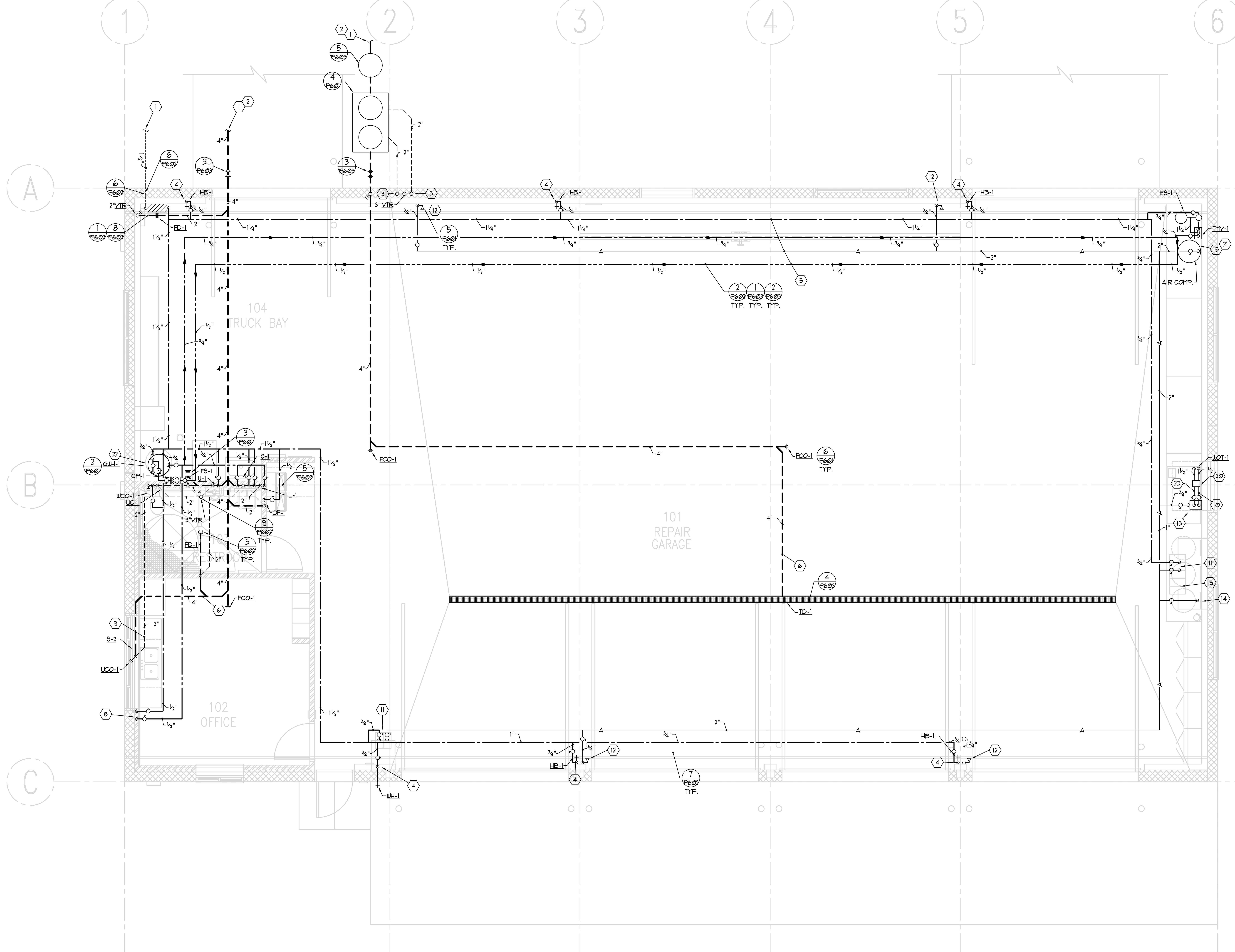
	1-19-09	90% REVIEW SUBMITTAL

DFCM PROJECT NO: 08300900
DFCM CONTRACT NO: 97236
ARCHIPLEX PROJECT NO: 0837.01
DRAWN BY: JB
CHECKED BY: ADS
SCALE:
DATE: FEBRUARY, 2009

SHEET TITLE

PLUMBING LEGEND AND SCHEDULES

P001



1 / P201 **PLUMBING FLOOR PLAN**

SCALE: 1/4" = 1' - 0"

KEYED NOTES:

1. SEE SITE DRAWINGS FOR CONTINUATION.
2. SEE CIVIL DRAWINGS FOR INVERT ELEVATION. GENERAL CONTRACTOR IS TO COORDINATE WITH HIS SUBS TO VERIFY SITE SANITARY SEWER AND BUILDING SANITARY SEWER PIPE WILL PROPERLY CONNECT PRIOR TO INSTALLING ANY SANITARY PIPE IN THE SITE OR BUILDING. IF A PROBLEM EXISTS, THE CONTRACTOR IS TO INFORM THE ARCHITECT OF THE PROBLEM PRIOR TO INSTALLING ANY PIPE. IF PIPE IS INSTALLED AND A PROBLEM ARISES, THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM ANY WORK REQUIRED SUCH THAT THE SANITARY PIPE CAN BE INSTALLED CORRECTLY TO CODE STANDARDS.
3. VENTS FROM SAND/OIL SEPARATOR MAY BE COMBINED AFTER THEY ARE 10' ABOVE FLOOD RIM OF SEPARATOR AND THEN CONNECTED TO VEHICLE STORAGE BAY WASTE SYSTEM VENT PIPE.
4. PROVIDE PVC COVER OVER INSULATION TO 8'-0" AFF. MOUNT HB-1 3'-0" AFF.
5. ROUTE PIPING ABOVE STRUCTURE.
6. ALL WASTE PIPING 3" AND GREATER TO SLOPE 1/8" PER FOOT.
7. PIPE SLEEVES REQUIRED ON THIS PROJECT. IF CONTRACTOR FAILS TO INSTALL PIPE SLEEVES, THE CONTRACTOR SHALL REMOVE PIPE, INSTALL SLEEVE AND REINSTALL PIPE AT NO ADDITIONAL EXPENSE TO THE OWNER.
8. RUN HOT AND COLD WATER PIPE UNDER CABNIET TO SINK.
9. RUN VENT LINE UNDER CABINET UNTIL IT CLEARS THE WINDOW.
10. CONNECT OIL DRAIN LINE TO DRAIN PUMP. RUN DRAIN LINE FROM PUMP TO 4-WAY VALVE AND TO WOT-1 (WASTE OILTANK). PROVIDE SHUTOFF VALVE AND UNION TO CATCH TANK. DRAIN PUMP BY CONTRACTOR. FIELD VERIFY LOCATION EXACT LOCATION OF TANK AND OIL DRAIN CONNECTION POINT LOCTION. INSTALL PER MANUFACTURERS INSTRUCTIONS.
11. CONNECT 1" COMPRESSED AIR LINE AND 3/4" CW LINE TO OVERHEAD HOSE REEL. PROVIDE SHUTOFF AND UNION. HOSE REEL BY CONTRACTOR.
12. 3/4" COMPRESSED AIR DROP DOWN TO QUICK DISCONNECT. PROVIDE SHUTOFF VALVE. VERIFY MOUNTING HEIGHT WITH OWNER. REFER TO DETAIL 5/P601.
13. DROP 3/4" COMPRESSED AIR DOWN TO OIL DRAIN PUMP. PROVIDE SHUTOFF VALVE.
14. DROP 1" COMPRESSED AIR LINE TO LUBE BARRELS. PROVIDE SHUTOFF VALVE. LUBE BARRELS BY OWNER, INSTALLED BY CONTRACTOR.
15. AIR COMPRESSOR BY CURRENTLY ON SITE. sALVAGED BY CONTRACTOR AND INSTALLED IN LOCATION SHOWN. CONNECT 2" COMPRESSED AIR LINE TO COMPRESSOR. PROVIDE SHUTOFF VALVE, UNION, ISOLATION PADS AND FLEXIBLE HOSE CONNECTION.
16. GAS LINE DOWN TO BURNER. PROVIDE SHUTOFF VALVE, UNION AND APPLIANCE REGULATOR REFERENCE DETAIL 2/M603.
17. DROP AIR LINE DOWN COLUMN FACE AND TERMINATE WITH QUICK COUPLER 3'-0" A.F.F.
18. CONNECT TO EXISTING BUILDING SANITARY SEWER. FIELD VERIFY EXACT LOCATION AND INVERTED ELEVATION TO PROVIDE PROPER FLOW TO NEW SEPTIC DRAIN FIELD.
19. 7 EACH TOTAL HOSE REELS FOR GREASE, OIL, LUBE, AIR AND WATER.
20. 4-WAY VALVE. INSTALL PER MANUFACTURERS INSTRUCTIONS.
21. RELOCATE EXISTING AIR COMPRESSOR TO APPROXIMATE SHOWN LOCATION.
22. MOUNT GAS WATER HEATER 18" A.F.F. PROVIDE EXPANSION TANK AS SPECIFIED BY MANUFACTURER

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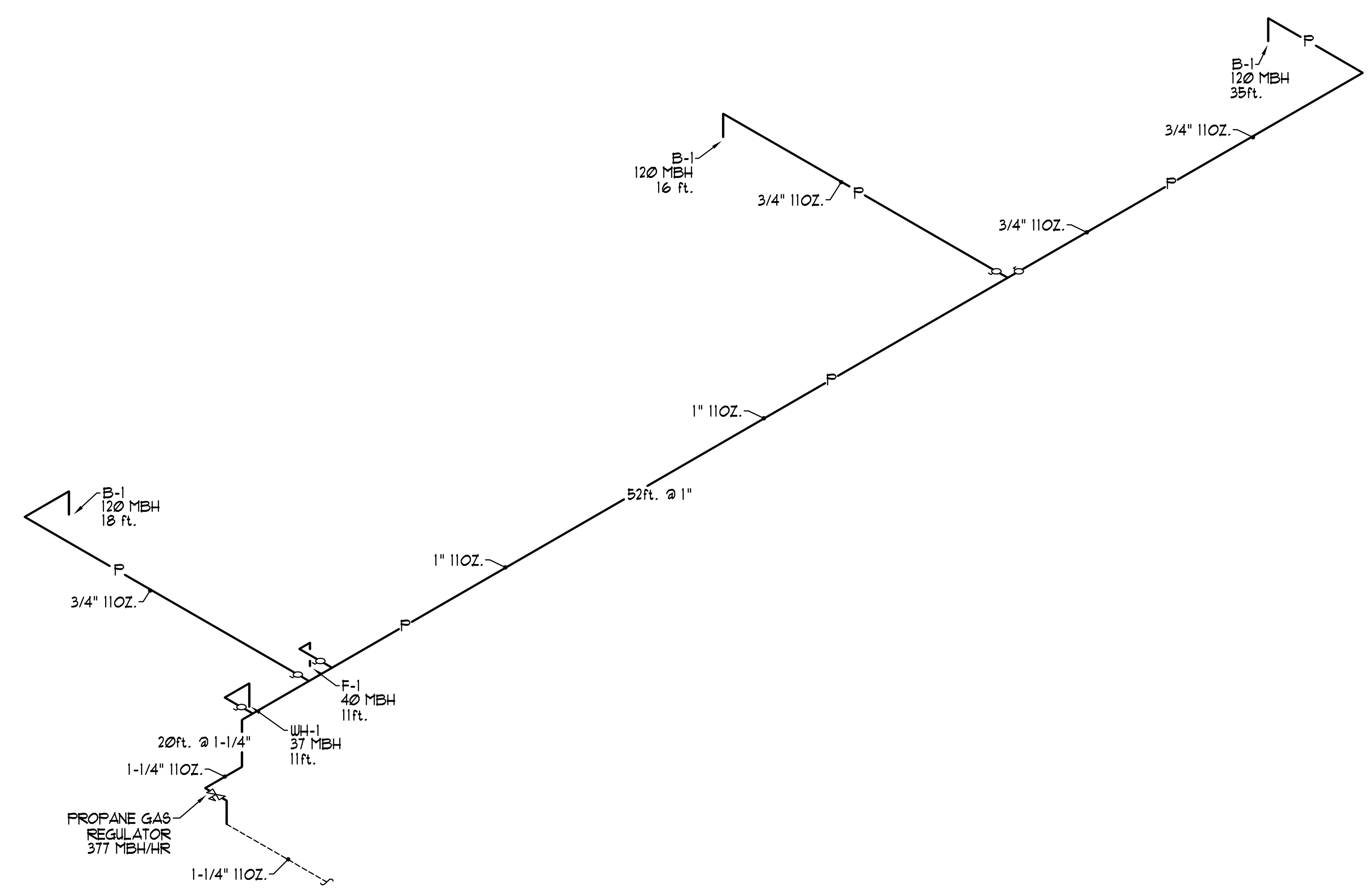
SCALE:	
DATE:	FEBRUARY, 2009

SHEET TITLE

PLUMBING FLOOR PLAN

P201



1 / P301 **PROPANE GAS ISOMETRIC DRAWING**

SCALE: NOT TO SCALE

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

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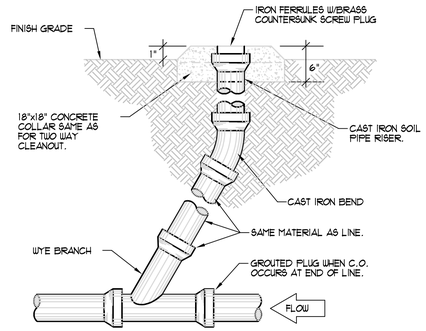
SHEET TITLE

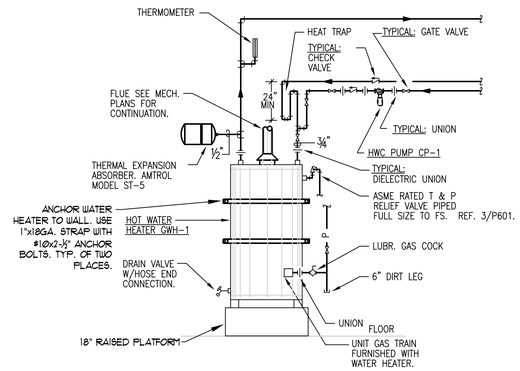
PROPANE GAS
ISOMETRIC
DRAWING

P301



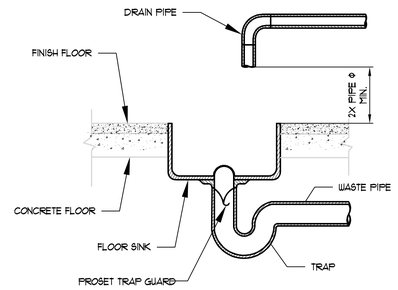
1 / P601 EXTERIOR CLEANOUT DETAIL

NO SCALE



2 / P601 GAS FIRED WATER HEATER

NO SCALE



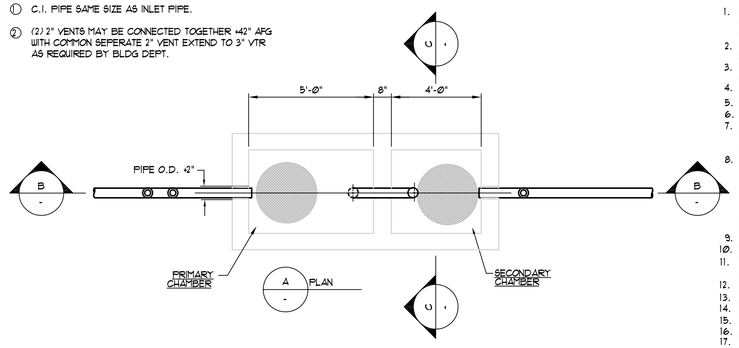
3 / P601 INDIRECT WASTE DETAIL

NO SCALE

KEYED NOTES:

① C.I. PIPE SAME SIZE AS INLET PIPE.

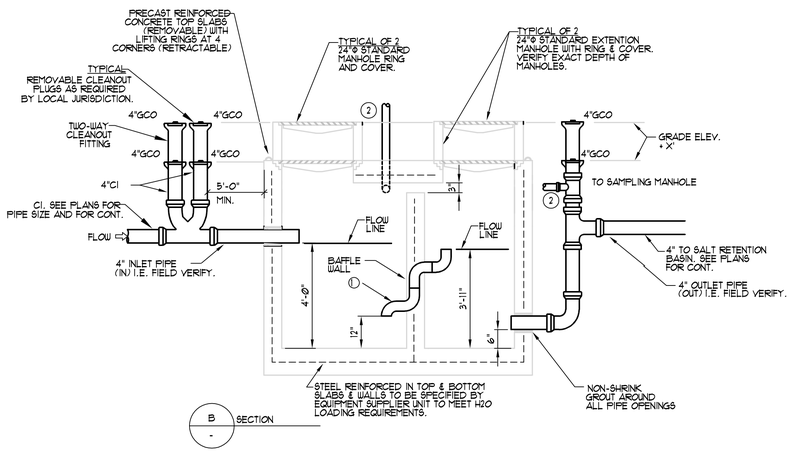
② (2) 2" VENTS MAY BE CONNECTED TOGETHER +42" AFG WITH COMMON SEPERATE 2" VENT EXTEND TO 3" VTR AS REQUIRED BY BLDG DEPT.



NOTES:

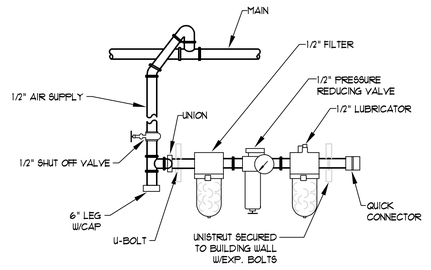
1. PIPING, CLEANOUT CONFIGURATION, SIZE AND TYPE OF PIPING MATERIAL AS PER CITY OR SANITARY DISTRICT. INSPECTION BY SOUTH VALLEY WATER RECLAMATION DISTRICT (SVLWRF) PRIOR TO BACKFILLING IS REQUIRED.
2. INTERCEPTOR PIPING AND OTHER ASSOCIATED PIPING CHANGES THAT ARE NECESSARY TO INSTALL INTERCEPTOR MUST BE IN ACCORDANCE WITH LOCAL REGULATIONS.
3. INTERCEPTOR MUST BE PROPERLY VENTED IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE STANDARDS.
4. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
5. REINFORCEMENT STEEL SHALL BE ASTEM A605 GRADE 60.
6. THE CONCRETE COVER OVER REINFORCEMENT STEEL SHALL BE A MINIMUM OF 1-½".
7. THE STRUCTURE SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF UTAH. THE DESIGNED SHALL BE SUBMITTED FOR APPROVAL TO THE ARCHITECT PRIOR TO INSTALLATION.
8. THE STRUCTURE SHALL BE DESIGNED FOR THE FOLLOWING LOADING CRITERIA.
   A. WALL DESIGN FOR A SATURATED EQUIVALENT FLUID AT-REST SOIL PRESSURE OF 80 PCF PLUS TRUCK SURCHARGES.
   B. TRUCK LOADING USING AN AASHTO H-20 TRUCK LOAD.

   MANWAY FRAME & COVER SHALL BE A TRAFFIC TYPE CASTING FOR H-20 TRUCK LOAD.
9. THE INLET PIPE SHALL BE AT AN ELEVATION 1" HIGHER THAN THE OUTLET PIPE.
10. WHERE THE SEWER LINE ALREADY EXIST, THE SEWER INVER INTO AND OUT OF THE INTERCEPTOR SHALL BE 4'-0" ABOVE THE INTERCEPTOR FLOOR.
11. THE BAFFLE IN THE INTERCEPTOR SHALL BE WITHIN 3" OF THE CEILING OF THE INTERCEPTOR. COVERS SHALL BE CIRCULAR AND BE SOLID.
12. SANITARY WASTE FROM TOILETS MUST NOT BE PLUMBED THROUGH THE INTERCEPTOR.
13. INTERCEPTOR MUST BE LOCATED IN SUCH A MANNER THAT IT IS READILY ACCESSIBLE FOR CLEANING.
14. FIELD VERIFY INVERT ELEVATIONS OF INLET AND OUTLET PIPING PRIOR TO INSTALLING INTERCEPTOR.
15. CONTRACTOR SHALL OBTAIN OFFICIAL LOCAL JURISDICTION WATER RECLAMATION DISTRICT INTERCEPTOR DESIGN AND INSTALL PER THEIR REQUIREMENTS.



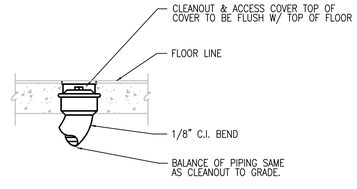
4 / P601 1000 GALLON GREASE INTERCEPTOR DETAIL-2 COMPARTMENT

NO SCALE



5 / P601 COMPRESSED AIR OUTLET CONNECTION DETAIL

NO SCALE



6 / P601 FLOOR CLEANOUT

NO SCALE

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PVE Inc.
Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

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REGISTERED PROFESSIONAL ENGINEER
ALAN D. SPENDLOVE
166911
STATE OF UTAH

ISSUE

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	1-19-09	90% REVIEW SUBMITTAL

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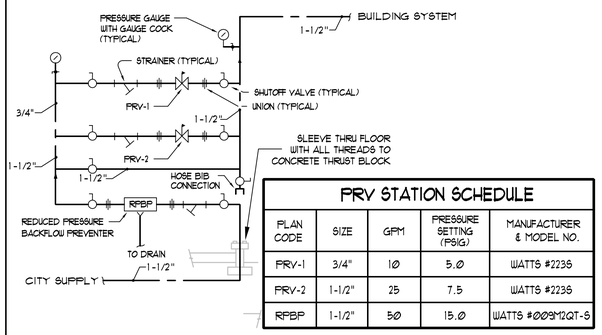
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	JB
CHECKED BY:	ADS
SCALE:	
DATE:	FEBRUARY, 2009

SHEET TITLE

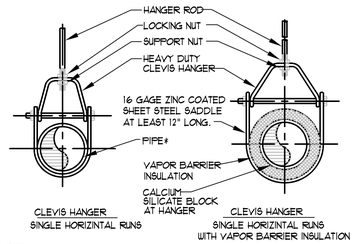
PLUMBING DETAILS

P601



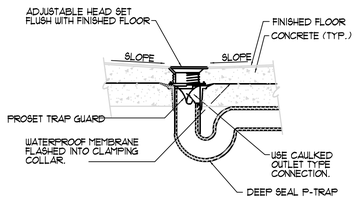
PRV STATION SCHEDULE				
PLAN CODE	SIZE	GPM	PRESSURE SETTING (PSIG)	MANUFACTURER & MODEL NO.
PRV-1	3/4"	10	5.0	WATTS #223S
PRV-2	1-1/2"	25	7.5	WATTS #223S
RPBP	1-1/2"	50	15.0	WATTS #009M2QT-S

1 P602 — PRV STATION DETAIL
NO SCALE

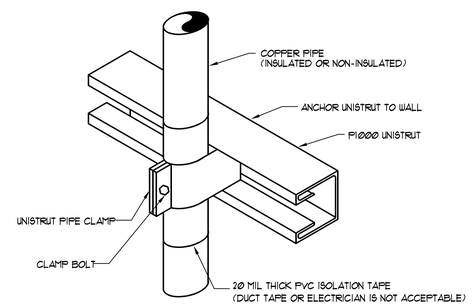


NOTE:
INSTALL 20 MIL THICK PVC ISOLATION TAPE BETWEEN PIPE AND HANGER FOR DISSIMILAR MATERIAL. WRAP TAPE AROUND PIPE (DUCT TAPE OR ELECTRICIAN TAPE IS NOT ACCEPTABLE)

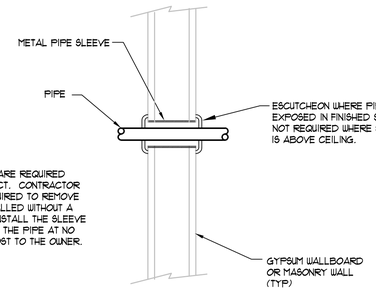
2 P602 — PIPE HANGERS DETAIL
NO SCALE



3 P602 — FLOOR DRAIN W/TRAP GUARD DETAIL
NO SCALE

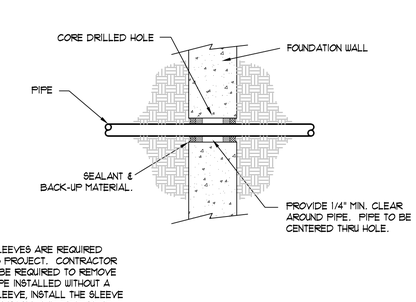


4 P602 — PIPE SUPPORT DETAIL
NO SCALE



NOTE:
PIPE SLEEVES ARE REQUIRED ON THIS PROJECT. CONTRACTOR SHALL BE REQUIRED TO REMOVE ANY PIPE INSTALLED WITHOUT A PIPE SLEEVE, INSTALL THE SLEEVE AND REINSTALL THE PIPE AT NO ADDITIONAL COST TO THE OWNER.

5 P602 — PIPING THRU GYPSUM WALL
NO SCALE



NOTE:
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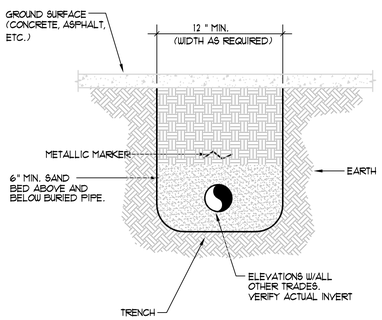
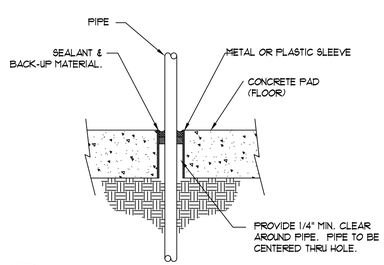
6 P602 — PIPE THRU WALL - BELOW GRADE
NO SCALE

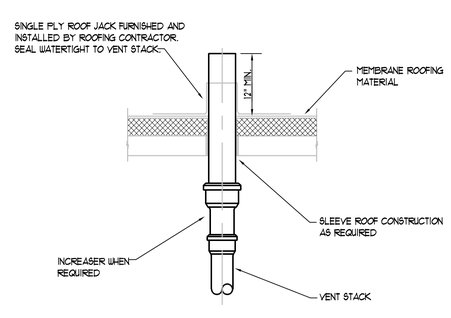


7 P602 — BURIED PIPE DETAIL
NO SCALE



NOTE:
ALL PIPES TO BE SLEEVED. THIS INCLUDES WATER, SEWER ETC.

8 P602 — PIPING THRU ON GRADE FLOOR
NO SCALE



9 P602 — VENT THROUGH ROOF DETAIL
NO SCALE

CLIENT
UDOT CONNECTING COMMUNITIES
STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER
ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

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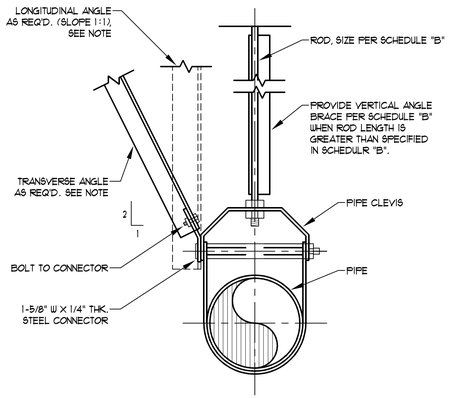


PIPING BRACING NOTES:

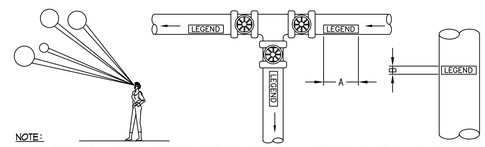
1. DESIGN SUPPORT SYSTEM FOR SEISMIC ZONE 4.
2. REFERENCE SMACNA SEISMIC RESTRAINT MANUAL.
3. SEISMIC BRACING IS REQUIRED FOR ALL PIPING 2-1/2" AND LARGER.
4. DO NOT USE BRANCH SECTIONS TO BRACE PIPING MAINS.
5. PROVIDE FLEXIBLE COUPLINGS AT PENETRATIONS THROUGH BUILDING SEISMIC AND EXPANSION JOINTS AND WHERE PIPING IS RIGIDLY CONNECTED TO EQUIPMENT.
6. FOR EQUIPMENT REQUIRING SEISMIC BRACING, INSTALL BRACES AS FOLLOWS:
   a. DO NOT USE JOIST BRIDGING FOR SUPPORT OF ANY LOAD.
   b. IF SUPPORTING LOADS ABOVE 50 LBS. BETWEEN JOIST PANEL POINTS REINFORCE BOTTOM CORD OF JOIST AS PER STRUCTURAL ENGINEERS REQUIREMENTS. REFER TO SUPPORT DETAILS ON STRUCTURAL DRAWINGS.

SCHEDULE "B" TRANSVERSE BRACING FOR PIPE

PIPE SIZE INCHES	BOLTS TO ANGLES	LONGITUDAL, TRANSVERSE & VERTICAL ANGLES	ROD DIAMETER INCHES	MAXIMUM ROD LENGTH	MAXIMUM INTERVAL OF BRACES IN FEET	
					40-S STEEL OR CAST IRON	COPPER TUBE
1	3/8"	1-1/2" X 1-1/2" X 3/16"	3/8"	19"	24.2	12.1
1-1/4	3/8"	1-1/2" X 1-1/2" X 3/16"	3/8"	19"	24.2	12.1
1-1/2	3/8"	1-1/2" X 1-1/2" X 3/16"	3/8"	19"	27.5	13.2
2	3/8"	1-1/2" X 1-1/2" X 3/16"	1/2"	25"	31.9	15.4
2-1/2	3/8"	2" X 2" X 5/16"	1/2"	25"	35.2	16.5
3	3/8"	2" X 2" X 5/16"	1/2"	25"	37.4	18.7
3-1/2	3/8"	2" X 2" X 5/16"	1/2"	25"	39.6	19.8
4	3/8"	2" X 2" X 5/16"	5/8"	31"	42.9	20.9
5	1/2"	2" X 2" X 5/16"	5/8"	31"	45.1	22.0
6	1/2"	2" X 2" X 5/16"	3/4"	37"	49.5	24.2
8	1/2"	2-1/2" X 2-1/2" X 1/4"	7/8"	43"	53.9	28.6
10	1/2"	3" X 3" 1/4"	7/8"	43"	59.4	30.8

1 P603 — TRANSVERSE PIPING SWAY BRACING DETAIL

NOT TO SCALE



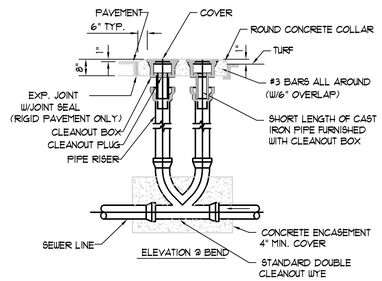
NOTE:
IDENDIFICATION MARKERS OR STRIPS TO BE PLACED ON ALL EXPOSED COVERED AND UNCOVERED PIPES AT 50'-0" INTERVALS AND AT ALL VALVES, BRANCHES, CHANGE IN DIRECTION OF FLOW AND ON BOTH SIDES OF WALLS WHERE PIPES PASS THROUGH SAME, ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATION DIRECTION OF FLOW.

OUTSIDE DIAMETER OF PIPE OR COVERING		LENGTH OF COLOR FIELD A		SIZE OF LETTERS B	
INCHES	MM	INCHES	MM	INCHES	MM
3/4" TO 1-1/4"	19 TO 32	8"	200	1/2"	13
1-1/2" TO 2"	38 TO 51	8"	200	3/4"	19
2-1/2" TO 6"	64 TO 150	12"	300	1-1/4"	32
8" TO 10"	200 TO 250	24"	600	2-1/2"	64
OVER 10"	OVER 250	32"	800	3-1/2"	89

SERVICE	BACKGROUND OR COLOR BAND	IDENTIFICATION MARKER
DOMESTIC COLD WATER	GREEN	WHITE ON GREEN
DOMESTIC HOT WATER	YELLOW	BLACK ON YELLOW
DOMESTIC HOT WATER RETURN	YELLOW	BLACK ON YELLOW
FIRE PROTECTION (SPRINKLER)	RED	WHITE ON RED
NATURAL GAS	YELLOW	BLACK ON YELLOW
SANITARY DRAIN	GREEN	WHITE ON GREEN
STORM WATER	GREEN	WHITE ON GREEN

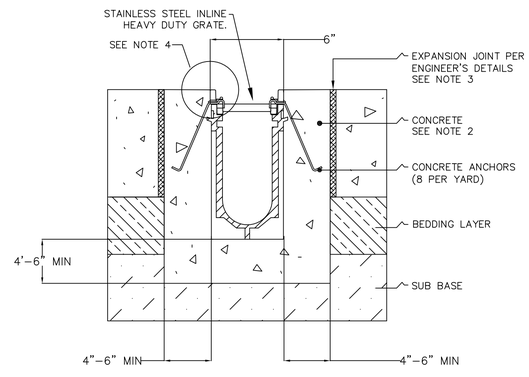
2 P603 — PIPE IDENTIFICATION DETAIL

NO SCALE



3 P603 — 2-WAY DOUBLE CLEANOUT DETAIL

NO SCALE



NOTE:
INSTALL PER MANUFACTURERS REQUIREMENTS

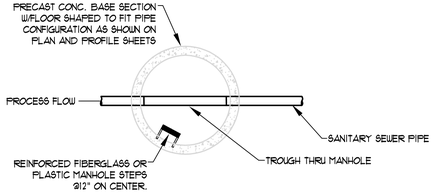
NOTES:
1. IT IS NECESSARY TO ENSURE THE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR THE EXISTING GROUND CONDITIONS. ENGINEERING ADVICE MAY BE REQUIRED.
2. A MINIMUM CONCRETE STRENGTH OF 3000 PSI IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CRACK CONTROL JOINTS ARE RECOMMENDED TO PROTECT THE CHANNEL AND THE CONCRETE SURROUND. ENGINEERING ADVICE MAY BE REQUIRED.
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" (3) ABOVE THE TOP OF THE CHANNEL EDGE.
5. REFER TO JAY R. SMITH'S LATEST INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.

4 P603 — TYPICAL TRENCH DRAIN DETAIL

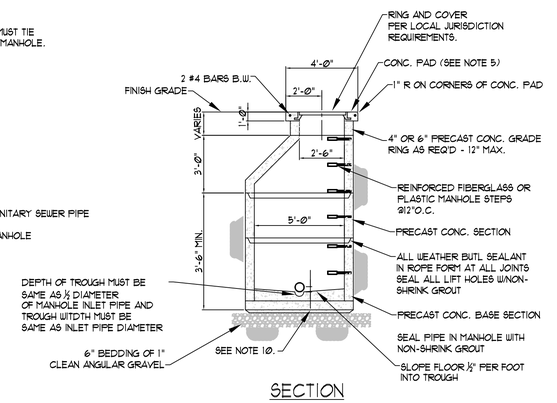
NO SCALE

NOTES:
1 PIPING, CLEANOUT CONFIGURATION, SIZE AND TYPE OF PIPING MATERIAL AS PER CITY OR SANITARY DISTRICT. INSPECTION BY SANITRAY DISTRICT PRIOR TO BACKFILLING.
2 WIDTH OF TROUGH IN MANHOLE MUST BE SAME SIZE AS THE INLET PIPE INTO MANHOLE. DEPTH OF TROUGH MUST BE THE SAME AS ½ OF INLET PIPE DIAMETER
3 CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
4 REINFORCEMENT STEEL SHALL BE ASTW A615 GRADE 60.
5 THE CONCRETE COVER OVER REINFORCEMENT STEEL SHALL BE A MINIMUM OF 1-½ INCHES.
6 THE STRUCTURE SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF UTAH.
7 THE STRUCTURE SHALL BE DESIGNED FOR THE FOLLOWING LOADING CRITERIA:
A) WALLS DESIGNED FOR A SATURATED EQUIVALENT FLUID AT-REST SOIL PRESSURE OF 90 PCF PLUS TRUCK SURCHARGES
B) TRUCK LOADING USING AN AASHTO H-20 TRUCK LOAD.
8 MANHOLES WILL HAVE STAINLESS OR PLASTIC STEPS.
9 ALL MANHOLES MUST HAVE ROUND NOTCHED COVERS WITH PICK HOLE FOR REMOVAL
10 FOR NEW CONSTRUCTION BOTTOM OF INLET PIPE INTO MANHOLE MUST BE AT LEAST 3 INCHES ABOVE THE BOTTOM OF THE TROUGH THRU THE MANHOLE.

NOTE:
SANITARY PIPING FROM TOILETS MUST TIE IN DOWNSTREAM FROM SAMPLING MANHOLE.



PLAN VIEW



SECTION

5 P603 — SAMPLING MANHOLE DETAIL

NO SCALE

CLIENT

UDOT CONNECTING COMMUNITIES
STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
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Slat lake City, UT 84115
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PLUMBING DETAILS

P603

ELECTRICAL SYMBOLS

NOTE: SYMBOLS SHOWN IN THIS SCHEDULE ARE TYPICAL. NOT ALL ARE USED IN THIS PROJECT. DOTTED SYMBOLS INDICATE EXISTING FIXTURE, EQUIPMENT, ETC.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
ELECTRICAL WIRING		
	CROSS LINES INDICATE NUMBER OF CONDUCTORS GROUNDING CONDUCTORS NOT INCLUDED.	N/A
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL	N/A
	BRANCH CIRCUIT CONCEALED IN GROUND OR FLOOR	N/A
A-13	BRANCH CIRCUIT HOMERUN TO PANEL w/PANEL & CIRCUIT NUMBER DESIGNATIONS.	N/A
	CONDUIT RISER UP	N/A
	CONDUIT RISER DOWN	N/A
	CONDUIT STUB (CAP CONDUIT)	AS NOTED
CT	CABLE TRAY	AS NOTED
BD	BUS DUCT	AS NOTED
ELECTRICAL POWER		
J	JUNCTION BOX	AS NOTED
	DUPLEX RECEPTACLE	+16"
	QUAD RECEPTACLE	+16"
	SPLIT WIRED DUPLEX RECEPTACLE	+16"
WP	DUPLEX RECEPTACLE WEATHERPROOF AND GFCI	+16"
	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"
EWC	RECEPTACLE ELECTRIC WATER COOLER (EWC) WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"
	EQUIPMENT RECEPTACLE	+16"
	SPECIAL PURPOSE RECEPTACLE	+16"
	DUPLEX RECEPTACLE FLOOR	FLOOR
	QUAD RECEPTACLE FLOOR	FLOOR
	POWER/TELEPHONE POLE	FLOOR
	MUTI-OUTLET WIREWAY	+46"
ELECTRICAL CONNECTIONS		
	NON-FUSED DISCONNECT SWITCH	TOP AT 6'-0"
	FUSED DISCONNECT SWITCH	TOP AT 6'-0"
	MOTOR STARTER/DISCONNECT SWITCH COMBINATION NON-FUSED	TOP AT 6'-0"
	MOTOR STARTER/DISCONNECT SWITCH COMBINATION FUSED	TOP AT 6'-0"
	MOTOR STARTER ONLY	TOP AT 6'-0"
VFD	VARIABLE FREQUENCY DRIVE	+78"
	MOTOR CONNECTION	AS NOTED
ELECTRICAL DISTRIBUTION		
T	TELEPHONE COMPANY PEDESTAL	AS NOTED
GS	POWER COMPANY GROUND SLEEVE	AS NOTED
	POWER COMPANY SITE TRANSFORMER	AS NOTED
	HIGH VOLTAGE (277/480 VOLT) PANELBOARD	TOP AT 6'-0"
	LOW VOLTAGE (120/208 VOLT) PANELBOARD	TOP AT 6'-0"
	DRY TYPE TRANSFORMER	AS NOTED
	DISTRIBUTION SWITCHBOARD	AS NOTED
	TELEPHONE AND/OR DATA TERMINAL BOARD	AS NOTED
ELECTRICAL DEVICES		
	PUSHBUTTON	+48"
	STOP/START STATION	+48"
EPO	"EMERGENCY POWER OFF" MUSHROOM TYPE BUTTON	+48"
T	LINE VOLTAGE THERMOSTAT	+48"
	CLOCK	AS NOTED
N	NURSE CALL BED/BATH STATION	+48"
N	NURSE CALL LIGHT	+84"
NURS	NURSE CALL STATION PANEL	TOP AT 6'-0"

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
LIGHTING CONTROL		
S	SINGLE POLE SWITCH	+48"
S_3	3-WAY SWITCH	+48"
S_4	4-WAY SWITCH	+48"
S_P	SWITCH WITH PILOT LIGHT	+48"
S_D	DIMMER SWITCH	+48"
S_K	KEYED SWITCH	+48"
S_{TM}	TIMER SWITCH (SPRING WOUND) WEATHER PROOF 0-30 MIN.	+48"
S_T	MANUAL STARTER WITH THERMAL OVERLOAD	AS NOTED
S_L	LOW VOLTAGE SWITCH	+48"
S^a	CONTROLLING SWITCH (LETTER INDICATES CONTROL CIRCUIT)	+48"
	SINGLE POLE SWITCH/OCCUPANCY SENSOR COMBINATION, MANUAL ON/AUTO OFF (WALL MOUNTED) DUAL TECHNOLOGY*	+48"
	OCCUPANCY SENSOR DUAL TECHNOLOGY	CEILING
TS	TIME SWITCH	+60"
LC	LIGHTING CONTACTOR	+60"
P	PHOTOCELL	AS NOTED
LIGHTING		
	FLUORESCENT FIXTURE (TYPICAL)	CEILING
EM	FLUORESCENT EMERGENCY FIXTURE (TYPICAL)	CEILING
	SURFACE MOUNTED FIXTURE	CEILING
	RECESSED FIXTURE	CEILING
	WALL MOUNTED FIXTURE	AS NOTED
	WALL MOUNTED EMERGENCY EGRESS FIXTURE	AS NOTED
	FLUORESCENT STRIP	CEILING
	TRACK LIGHTING	CEILING
	EMERGENCY LIGHTING UNIT	+84"
FXX	FIXTURE TYPE SYMBOL (ATTACHED TO FIXTURE SYMBOL)	N/A
	POST TOP AREA LIGHT POLE & FIXTURE	AS NOTED
	AREA LIGHT POLE AND FIXTURE (HEAD QTY AS SHOWN ON PLAN)	AS NOTED
	BOLLARD FIXTURE	GROUND
	FLOOD OR SPOT FIXTURE	AS NOTED
	WALL MOUNTED EXIT LIGHT (SINGLE FACE)	+84"
	WALL MOUNTED EXIT LIGHT (DOUBLE FACE)	+84"
	CEILING MOUNTED EXIT LIGHT (SINGLE FACE)	CEILING
	CEILING MOUNTED EXIT LIGHT (DOUBLE FACE)	CEILING
TELECOMMUNICATIONS		
	TELEPHONE OUTLET	+16"
	COMPUTER DATA OUTLET	+16"
	VOICE / DATA OUTLET - RUN 3/4"C TO TEL/DATA EQUIP. BOARD	+16"
	TELEPHONE OUTLET FLOOR	FLOOR
	COMPUTER DATA OUTLET FLOOR	FLOOR
	NETWORK AND VOICE OUTLET FLOOR	FLOOR
REFERENCE SYMBOLS		
XX/X	FEEDER TAG (ONE LINE DIAGRAM)	N/A
X	REVISION TAG INDICATOR	N/A
X/EX	DETAIL INDICATOR; TOP DETAIL IDENTIFICATION BOTTOM INDICATES SHEET WHERE DETAIL IS LOCATED.	N/A
X-XX	MECHANICAL EQUIPMENT SYMBOL	N/A
X	KEYED NOTE REFERENCE	N/A

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
AUDIO / VIDEO		
TV	TELEVISION OUTLET - RUN 3/4"C TO TEL/DATA EQUIP. BOARD	AS NOTED
V	VOLUME CONTROL	+48"
S	SPEAKER	CEILING
M	MICROPHONE JACK	+16"
A	AUXILIARY JACK	+16"
IC	INTERCOM STATION	+48"
	BELL	+84"
	CHIME	+84"
FIRE ALARM		
F	FIRE ALARM MANUAL PULL STATION	SEE DETAIL
	FIRE ALARM HORN/STROBE	SEE DETAIL
	FIRE ALARM HORN/STROBE WITH GUARD	SEE DETAIL
WP	FIRE ALARM HORN/STROBE WATERPROOF	SEE DETAIL
	FIRE ALARM STROBE	SEE DETAIL
	SMOKE DETECTOR	CEILING
S_B	SMOKE DETECTOR BATTERY-BACKED WITH ALARM	CEILING
S_D	DUCT SMOKE DETECTOR	IN DUCT
S_E	SMOKE DETECTOR (ELEVATOR RECALL)	CEILING
	HEAT DETECTOR	CEILING
	GAS DETECTOR - BATTERY - BACKED WITH ALARM	+16"
	DOOR HOLDER	AS NOTED
	PRESSURE SWITCH	AS NOTED
	FIRE ALARM FLOW SWITCH	AS NOTED
	FIRE ALARM TAMPER SWITCH	AS NOTED
	FIRE ALARM FIREFIGHTER PHONE	+48"
CM	CONTROL MODULE	AS NOTED
MM	MONITOR MODULE	AS NOTED
FSD	FIRE/SMOKE DAMPER	AS NOTED
R	FIRE ALARM RELAY	AS NOTED
GAA	FIRE ALARM GENERATOR ANNUCIATOR	TOP AT 6'-0"
FST	FIRE ALARM TRANSMISSION (MONITORING) DEVICE	AS NOTED
FACP	FIRE ALARM CONTROL PANEL	TOP AT 6'-0"
FAA	FIRE ALARM REMOTE ANNUCIATOR PANEL	TOP AT 6'-0"
SECURITY		
D_1	SECURITY SYSTEM DOOR CONTACT	DOOR JAMB
D_2	SECURITY SYSTEM OVERHEAD DOOR CONTACT	AS NOTED
KP	SECURITY SYSTEM KEYPAD ARM/DISARM	+48"
	SECURITY SYSTEM DOOR ELECTRIC STRIKE	AS NOTED
	SECURITY SYSTEM MAGNETIC DOOR LOCK	AS NOTED
REX	REQUEST TO EXIT MOTION DETECTOR	AS NOTED
	SECURITY SYSTEM AREA MOTION SENSOR	AS NOTED
	SECURITY SYSTEM GLASS BREAK SENSOR	AS NOTED
CR	SECURITY SYSTEM CARD READER	+48"
AK	SECURITY SYSTEM DOOR ACCESS KEYPAD	+48"
	SECURITY SYSTEM CCTV CAMERA	AS NOTED
DVR	DIGITAL VIDEO RECORDER	AS NOTED
MON	SECURITY SYSTEM CCTV MONITOR	AS NOTED
SERT	SECURITY SYSTEM PANEL	TOP AT 6'-0"
PS	POWER SUPPLY LOW VOLTAGE	AS NOTED

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	EWC	ELECTRIC WATER COOLER	(N)	NEW
AFP	ARC FAULT PROTECTOR	EWH	ELECTRIC WATER HEATER	NIC	NOT IN CONTRACT
AIC	AMP INTERRUPTING CURRENT (SYMMETRICAL)	(A)	FUTURE	NL	NIGHT LIGHT
AL	ALUMINUM	FA	FIRE ALARM	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
BG	BELOW GRADE	FLA	FULL LOAD AMPS	OFOI	OWNER FURNISHED OWNER INSTALLED
C	CONDUIT	GFI	GROUND FAULT INTERRUPTER	PNL	PANEL
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	GFP	GROUND FAULT PROTECTOR	(R)	RELOCATE
CKT	CIRCUIT	GRC	GALVANIZED RIGID CONDUIT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
CO	CONDUIT ONLY	GRND	GROUND	TYP	TYPICAL
CU	COPPER	IG	ISOLATED GROUND	UNO	UNLESS NOTED OTHERWISE
C/W	COMPLETE WITH	MCB	MAIN CIRCUIT BREAKER	WP	WEATHER PROOF
E	EMERGENCY	MCC	MOTOR CONTROL CENTER	(X)	DEMOLISH/DELETE
(E)	EXISTING	MH	MANHOLE	XMR	TRANSFORMER
EPO	EMERGENCY POWER OFF	MLO	MAIN LUGS ONLY		

* THIS IS A TYPICAL ABBREVIATION LIST. NOT ALL ABBREVIATIONS ARE USED ON THIS PROJECT.

GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
2. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS BOUND IN A THREE RING BINDER, INDEXED IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS OVER 600 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS, SECURITY SYSTEMS, SOUND SYSTEMS ETC.
3. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. MANUFACTURES CATALOG NUMBERS ARE LISTED AS A BASIS OF DESIGN. ELECTRICAL CONTRACTOR SHALL SUBMIT PRODUCT INFORMATION THAT DEVIATES FROM ORIGINAL DESIGN INTENT AND SPECIFICATION.
4. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
5. ALL IMPACT FEES ASSOCIATED WITH CITY, UTILITY OR SERVICE COMPANIES FOR BUT NOT LIMITED TO POWER, TELEPHONE, FIBER OPTIC & INTERNET SHALL BE THE RESPONSIBILITY OF THE OWNER.
6. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL TEMPORARY POWER FOR PROJECT CONSTRUCTION AS REQUIRED. ALL ENERGY COSTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
7. DO NOT SCALE DRAWINGS VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.
8. ELECTRICAL CONTRACTOR SHALL REVIEW ALL ARCHITECTS ELEVATIONS, SECTIONS AND FLOOR PLANS PRIOR TO ROUGH IN OF ELECTRICAL DEVICE JUNCTION BOXES.
9. CONSULT ARCHITECTS REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC.
10. ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING AND CEILING INSTALLATIONS.
11. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
12. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY AND MAINTAIN REQUIRED CLEARANCES.
13. ELECTRICAL ROOM DRAWINGS ARE FOR REFERENCE ONLY OF EQUIPMENT QUANTITIES. ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ELECTRICAL ROOM SHOWING DIMENSIONS AND CLEARANCES OF ALL EQUIPMENT AND ELECTRICAL GEAR PROVIDED. COORDINATE LAYOUT WITH ONE-LINE DRAWINGS.
14. CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS FROM NAMEPLATE RATINGS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.
15. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, PER INDUSTRY STANDARD AND TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
16. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
17. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
18. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL AND TERMINATION POINT, USING PERMANENT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
19. ALL PENETRATIONS OF FIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH UL LISTED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.
20. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.
21. WIRE FOR GENERAL USE SHALL BE COPPER 75° C RATED . WIRING FOR HID FIXTURES WITHIN 3' OF FLUORESCENT BALLAST SHALL BE COPPER, MINIMUM 90° C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30° C AMBIENT TEMPERATURE ENVIRONMENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
22. CONDUCTORS HAVE BEEN SIZED FOR VOLTAGE DROP AS PER PLANS AND DIRECT ROUTING. ANY DEVIATION IN CONDUIT ROUTING MAY INCREASE THE WIRE AND CONDUIT SIZE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INSURE PROPER OPERATING VOLTAGE ON ALL CIRCUITS BOTH INTERIOR AND EXTERIOR. THE VOLTAGE DROP SHALL NOT EXCEED 3% FOR BRANCH CIRCUITS AND 2% FOR FEEDERS FOR A TOTAL OF 5% COMBINED TOGETHER OF BRANCH AND FEEDER CIRCUITS TO THE FARTHEST OUTLET.
23. ALL WIRING IN PATIENT TREATMENT AREAS SHALL BE ENCLOSED IN METAL RACEWAYS. ALL RECEPTACLES, LIGHTING FIXTURES, ETC. SHALL HAVE A SEPARATE INSULATED GROUNDING CONDUCTOR FROM EACH DEVICE TO THE BRANCH PANEL. ELECTRICAL CONTRACTOR SHALL COMPLY WITH ARTICLE 517 OF THE 2008 NATIONAL ELECTRICAL CODE (e.g. WIRING, DEVICE PLACEMENT, ETC.).
24. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL UTILITY METERING EQUIPMENT TO COMPLY WITH THE STANDARDS OF THE LOCAL OR PROJECT SPECIFIC POWER COMPANY.
25. VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. A UTILITY LOCATING COMPANY SUCH AS "BLUE STAKE" OR EQUAL SHALL BE USED TO VERIFY AND MARK UTILITIES BEFORE TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC., REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION. PATCHING SHALL MATCH EXISTING SURROUNDING SURFACES. CONTRACTOR SHALL OBTAIN AND VERIFY UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL, MECHANICAL, AND SITE EXCAVATION CONTRACTORS.
26. PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.
27. SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERING BOXES WITH "DUCTSEAL" OR EQUAL.
28. ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY ALL SYSTEMS WITH PROJECT ENGINEER DURING FINAL INSPECTION TO INSURE PROPER OPERATION. IF TESTS RESULT IN DEFECT THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.
29. PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
30. THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PVE Inc.
Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 154867
DEAN F LEVORSEN
STATE OF UTAH

ISSUE

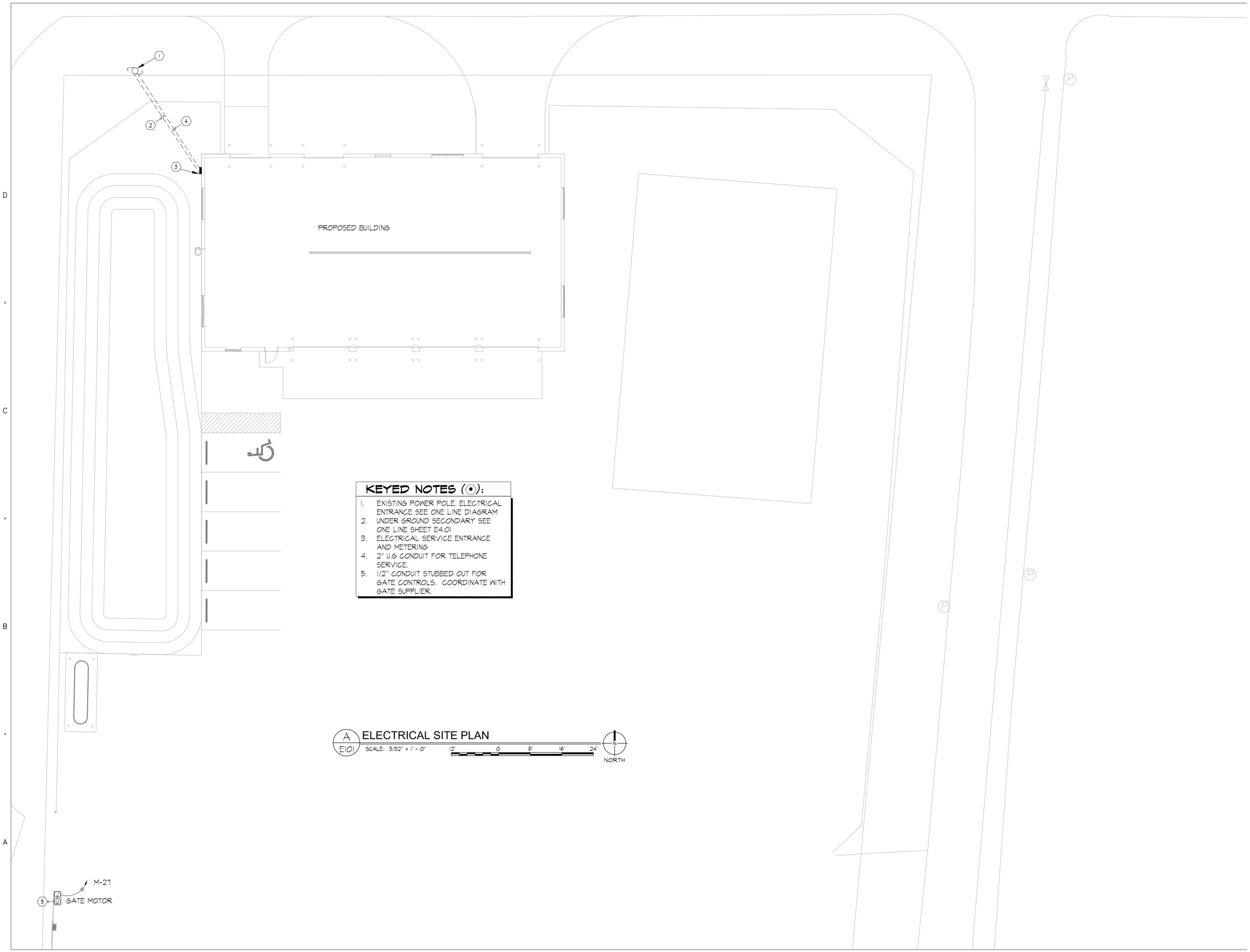
MARK	DATE	DESCRIPTION
	2-09	CONSTRUCTION DOCUMENTS
	1-19-09	90% REVIEW SUBMITTAL

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	PCH
CHECKED BY:	RKR
SCALE:	
DATE:	FEBRUARY, 2009

SHEET TITLE

ELECTRICAL SYMBOLS AND NOTES

E001



KEYED NOTES (◉):

1. EXISTING POWER POLE. ELECTRICAL ENTRANCE SEE ONE LINE DIAGRAM
2. UNDER GROUND SECONDARY SEE ONE LINE SHEET E4.01
3. ELECTRICAL SERVICE ENTRANCE AND METERING
4. 2" U.G CONDUIT FOR TELEPHONE SERVICE.
5. 1/2" CONDUIT STUBBED OUT FOR GATE CONTROLS. COORDINATE WITH GATE SUPPLIER.

A E101 ELECTRICAL SITE PLAN

SCALE: 3/32" = 1' - 0"

12' 0 8' 16' 24'

NORTH

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STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture · planning · design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

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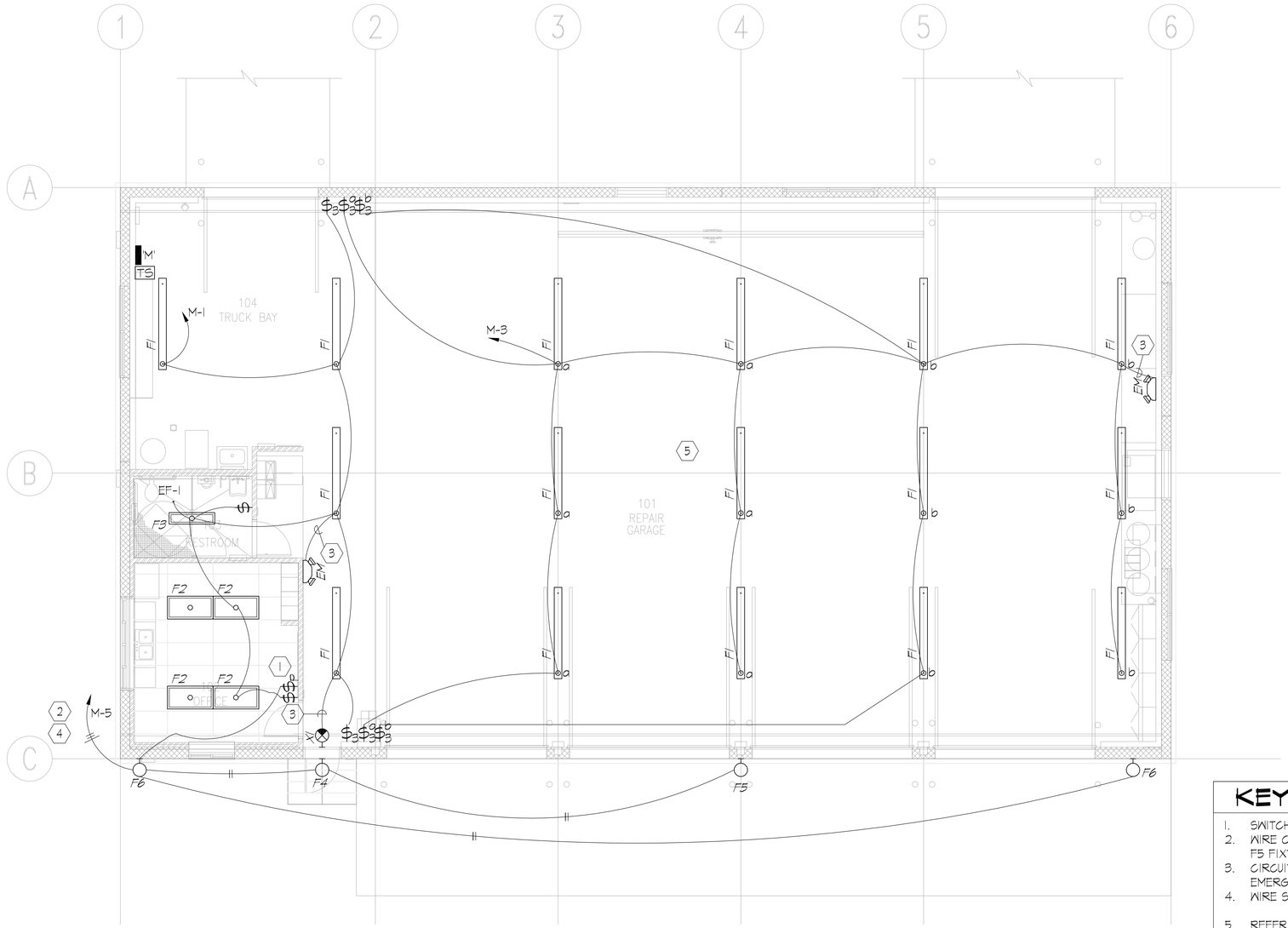
SHEET TITLE

ELECTRICAL SITE PLAN

E101

By: kmcgee; Mar 16, 2009 - 12:04pm, X:\Projects\2008\08278.00.01- Scofield Maint. Sta\E101 - 08278.01.dwg



KEYED NOTES (⟨#⟩):

1. SWITCH WITH PILOT LIGHT ON IN ON POSITION.
2. WIRE CIRCUIT THROUGH TIME SWITCH FOR F4 AND F5 FIXTURES.
3. CIRCUIT TO BE UN-SWITCHED TO EXIT AND EMERGENCY LIGHT FIXTURES.
4. WIRE SWITCH THROUGH PILOT SWITCH IN OFFICE.
5. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LIGHTING FIXTURE LOCATIONS.

E 201 — ELECTRICAL LIGHTING PLAN

SCALE: 3/16" = 1'-0" 6' 0 4' 8' 12'

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UDOT CONNECTING COMMUNITIES

STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture • planning • design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

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Phone: (801) 359-3158
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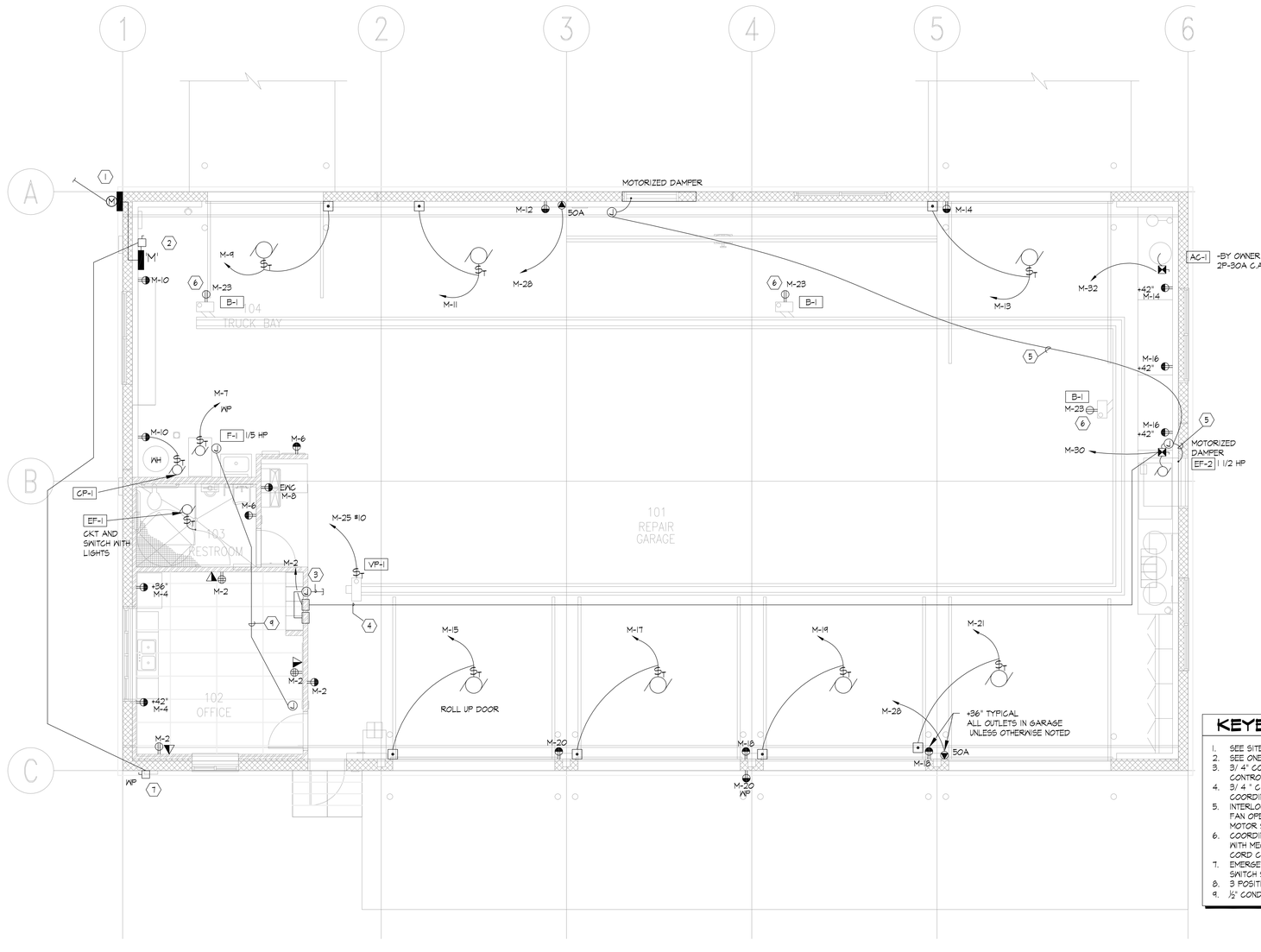
SHEET TITLE

ELECTRICAL LIGHTING PLAN

E201



KEYED NOTES (#):

1. SEE SITE PLAN SHEET E101
2. SEE ONE LINE DIAGRAM SHEET E401
3. 3/ 4" CONDUIT TO STRUCTURE FOR RADIANT HEAT CONTROLS. WIRE AND CONTROL BY DIV 15
4. 3/ 4 " C WITH 3 #12 THWN TO EF2 STARTER. COORDINATE CONTROLS WITH DIVISION 15
5. INTERLOCK MOTORIZED DAMPERS WITH EXHAUST FAN OPERATION OFF AUXILIARY CONTACT IN MOTOR STARTER.
6. COORDINATE BURNER RECEPTACLE LOCATION WITH MECHANICAL CONTRACTOR FOR PLUG AND CORD CONNECTION
7. EMERGENCY POWER CONNECTION DISCONNECT SWITCH SEE ONE LINE DIAGRAM.
8. 3 POSITION DISCONNECT SWITCH.
9. ½" CONDUIT ONLY FOR CONTROLS.

E301 ELECTRICAL POWER PLAN

SCALE: 3/16" = 1' - 0"

6' 0 4' 8' 12'

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STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture • planning • design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

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Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
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No. 154867
DEAN P. LEVORSEN
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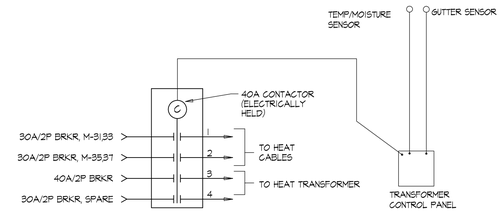
SHEET TITLE

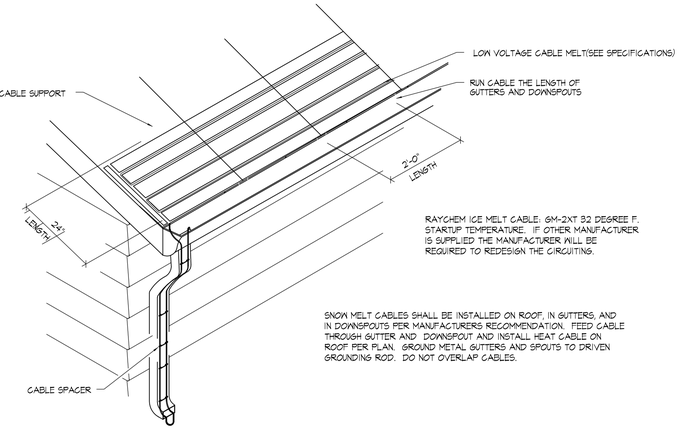
ELECTRICAL POWER PLAN

E301



PROVIDE 30-mA GROUND FAULT CIRCUIT PROTECTION BREAKERS FOR ICE MELT EQUIPMENT.

A E6.1 SNOW MELT CONTROL DIAGRAM

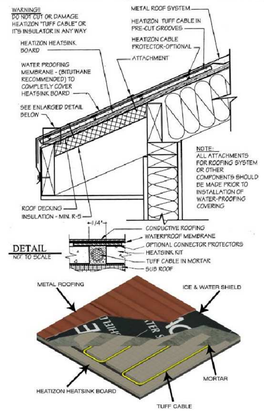


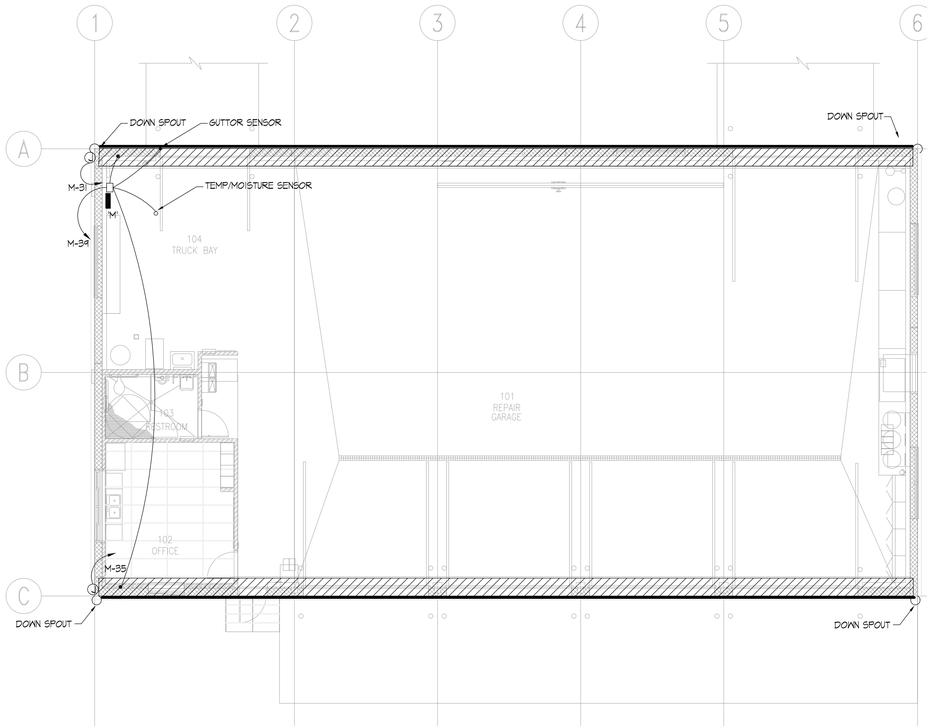
RAYCHEM ICE MELT CABLE: 6M-2XT 32 DEGREE F. STARTUP TEMPERATURE. IF OTHER MANUFACTURER IS SUPPLIED THE MANUFACTURER WILL BE REQUIRED TO REDESIGN THE CIRCUITING.

SNOW MELT CABLES SHALL BE INSTALLED ON ROOF, IN GUTTERS, AND IN DOWNSPOUTS PER MANUFACTURERS RECOMMENDATION. FEED CABLE THROUGH GUTTER AND DOWNSPOUT AND INSTALL HEAT CABLE ON ROOF PER PLAN. GROUND METAL GUTTERS AND SPOUTS TO DRIVEN GROUNDING ROD. DO NOT OVERLAP CABLES.

B E6.1 SNOW MELT CABLE DETAIL

TUFF CABLE IN A HEATSINK UNDER METAL ROOF





E 302 SNOW MELT PLAN

SCALE: 1/8" = 1'-0"

6' 0 4' 8' 12' 16'

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STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture • planning • design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PVE Inc. Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

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SHEET TITLE

SNOW MELT

E302

LIGHT FIXTURE SCHEDULE

FIXTURE NUMBER	FIXTURE MANUFACTURER	FIXTURE CATALOG #	DESCRIPTION	LAMPS TYPE	LAMPS QTY.	FIXTURE VOLTS	FIXTURE WATTS	FIXTURE MOUNTING	REMARKS
F1	METALUX DAYBRITE	8TIA-232-EB81 TIA232-U-IEB	96" INDUSTRIAL FLUORESCENT (TANDEM)	F32T8/SP35 ECO	4	120	132	SURFACE/CHAIN	PROVIDE WITH ELECTRONIC BALLAST
F2	METALUX DAYBRITE	2SC-332A125-EB81 2DP6332-FSI2-I/SEB	2X4 PRISMATIC LAYIN FIXTURE SPECIFICATION GRADE (3-LAMP)	F32T8/SP35 ECO	3	120	98	LAY-IN GRID	PROVIDE WITH ELECTRONIC BALLAST
F3	METALUX DAYBRITE	2G-332A-EB81 CAN332-I/SEB	1X4 SURFACE FLUORESCENT (3 LAMP)	F32T8/SP35 ECO	3	120	98	SURFACE CEILING	PROVIDE WITH ELECTRONIC BALLAST
F4	DAYBRITE LUMARK	WLD100M-LP MHSP-100H-MT-LL	100 WATT METAL HALIDE WALL PACK	100W MH	1	120	118	SURFACE WALL	
F5	DAYBRITE LUMARK	WLL250M-LP MHAL 250-MT-LL	250 WATT METAL HALIDE WALL PACK	250W MH	1	120	300	SURFACE WALL	
F6	DAYBRITE LUMARK	WLD100M-LP MHSP-100H-MT-LL	400 WATT METAL HALIDE FLOOD LIGHT	100W MH	1	120	118	SURFACE WALL	
F7	DAYBRITE LUMARK	FSM400MMT-WH MHNK-Y-76-400-120-WH	400 WATT METAL HALIDE WALL PACK	400W MH	1	120	465	SURFACE WALL	
F8	PORTFOLIO OMEGA	C7032-E-705H-LI 5632PLTU-T6CS	FLUOR. DOWNLIGHT W/LZAK TRIM 32 DTT LAMP	32 TRT	1	120	34	RECESSED	PROVIDE WITH ELECTRONIC BALLAST
EM	BODINE IOTA	EB0 I-320	EMERGENCY BALLAST (12)-4 FOOT T-8 LAMP)	----	----	120	----	----	EMERGENCY BALLAST (1)-4 FOOT T8 LAMP, 1100 LUMENS MIN. VERIFY COMPATIBILITY BEFORE ORDERING
X1	SURE-LITES McPHILBEN	LPX-10-DSWHDH CCAXL-I-SW	2-HEAD EM WALL PACK (SURFACE) WITH EXIT LIGHT	INCLUDED	2	120	5.4	SURFACE WALL	
X2	SURE-LITES McPHILBEN	CC-6-WH GT6	2-HEAD EM WALL PACK (SURFACE)	INCLUDED	2	120	5.4	SURFACE WALL	

NOTE:
ELECTRICAL CONTRACTOR SHALL PROVIDE A 'QUICK DISCONNECT HARNESS' FOR EACH FLUORESCENT LIGHTING FIXTURE TO SERVE AS A MEANS OF DISCONNECT TO ALLOW THE FIXTURE BALLAST TO BE SERVICED IN PLACE, AS PER THE NATIONAL ELECTRICAL CODE 2008, ARTICLE 410.130 (G).

PANEL SCHEDULE

PANEL: M
VOLTAGE: 240 / 120 PHASE: 1
MOUNTING: SURFACE WIRE: 3
ENCLOSURE: NEMA 1
REMARKS:

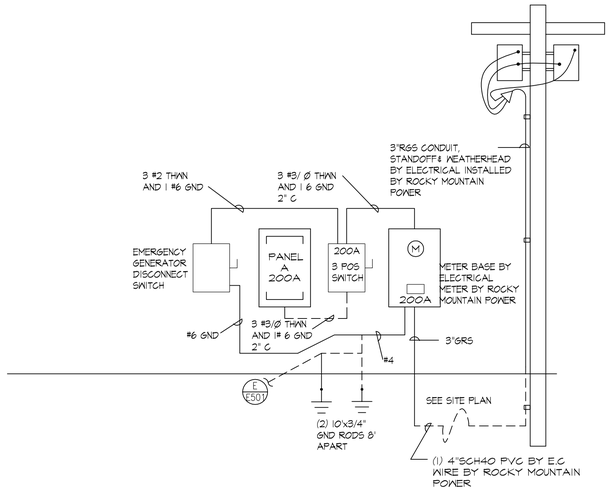
BUS AMPS: 225
MAIN OVERCURRENT DEVICE: LUGS
MAIN OVERCURRENT AMPS: N/A
MINIMUM EQUIPMENT RATING: 22,000 AMPS (RMS-SYM)

USE
E = Equipment Load M = Motor Load
L = Lighting Load K = Kitchen Equipment
R = Receptacle Load

BREAKER NO.	BREAKER AMPS	BREAKER POLE	CIRCUIT NAME	FEEDER C	FEEDER WIRE	FEEDER GRD	CKT. LOAD USE	CKT. LOAD WATTS	LOAD/PHASE 9A	LOAD/PHASE 9B	CKT. LOAD WATTS	CKT. LOAD USE	FEEDER GRD	FEEDER WIRE	FEEDER C	CIRCUIT NAME	BREAKER POLE	BREAKER AMPS	BREAKER NO.
1	20	1	LIGHTING	3/4"	#12	#12	L	1,040	2,840		1,800	R	#12	#12	3/4"	RECEPTACLES	1	20	2
3	20	1	LIGHTING	3/4"	#12	#12	L	1,440		2,340	1,100	R	#12	#12	3/4"	RECEPTACLES	1	20	4
5	20	1	LIGHTING	3/4"	#12	#12	L	1,400	2,120		720	R	#12	#12	3/4"	RECEPTACLES	1	20	6
7	20	1	FURNACE F-1	3/4"	#12	#12	M	500		1,100	600	R	#12	#12	3/4"	RECEPTACLES	1	20	8
9	20	1	ROLL-UP DOOR	3/4"	#12	#12	M	1,100	1,820		720	R	#12	#12	3/4"	RECEPTACLES	1	20	10
11	20	1	ROLL-UP DOOR	3/4"	#12	#12	M	1,100		1,820	720	R	#12	#12	3/4"	RECEPTACLES	1	20	12
13	20	1	ROLL-UP DOOR	3/4"	#12	#12	M	1,100	1,820		720	R	#12	#12	3/4"	RECEPTACLES	1	20	14
15	20	1	ROLL-UP DOOR	3/4"	#12	#12	M	1,100		1,820	720	R	#12	#12	3/4"	RECEPTACLES	1	20	16
17	20	1	ROLL-UP DOOR	3/4"	#12	#12	M	1,100	1,820		720	R	#12	#12	3/4"	RECEPTACLES	1	20	18
19	20	1	ROLL-UP DOOR	3/4"	#12	#12	M	1,100		1,820	720	R	#10	#10	3/4"	RECEPTACLES	1	20	20
21	20	1	ROLL-UP DOOR	3/4"	#12	#12	M	1,100	2,180		1,080	R	#10	#10	3/4"	RECEPTACLES	1	20	22
23	20	1	RADIANT HEAT BURNERS B-1	3/4"	#12	#12	E	400		1,200	800	M	#12	#12	3/4"	EXHAUST FAN	2	20	24
25	30	1	VACUUM PUMP 3/4 HP VP-1	3/4"	#10	#12	E	1,500	2,300		800	M	---	#12	---	EF-2	---	---	26
27	20	2	GATE	3/4"	#10	#12	E	800		2,800	2,000	E	#6	#8	1"	SPECIAL PURPOSE	2	50	28
29		---	---	---	#10	---	E	800	4,000		2,000	E	---	#8	---	OUTLET	---	---	30
31	30	2	SNOW MELT CABLE	3/4"	#10	#12	E	1,700		5,700	2,000	M	#8	#10	1"	COMPRESSOR	2	40	32
33		---	NORTH GFCI	---	#10	---	E	1,700	3,100		2,000	M	---	#10	---	---	---	---	34
35	30	2	SNOW MELT CABLE	3/4"	#10	#12	E	1,700		1,700									
37		---	SOUTH GFCI	---	#10	---	E	1,700	1,700										
39	40	2	SNOW MELT TRANSFORMER	1"	#8	#10	E	9,000		9,000									
41			ROOF EVES	---	#8	---	E	9,000	9,000										

	9A	9B	DEMAND
LIGHTING LOAD (VA)	2,440	1,440	3,880
LIGHTING CONTINUOUS LOAD (VA)			970
RECEPTACLE LOAD PER NEC 220.13(VA)	5,760	3,860	9,620
EQUIPMENT LOAD (VA)	17,900	16,200	34,100
25% LARGEST MOTOR			500
KITCHEN EQUIPMENT LOAD (VA)	0	0	0
0 UNITS @ 100% (PER NEC TABLE 220.56)			
TOTAL LOAD (VA)	26,100	21,500	49,070
TOTAL LOAD (AMPS).	218	179	204

NOTES:
1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THWN.
2. RECEPTACLE LOAD CALCULATED AS PER SECTION 220 OF THE NATIONAL ELECTRICAL CODE.
3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD".
4. FIELD VERIFY EXACT SIZE, VOLTAGE, ETC. PRIOR TO ROUGH-IN.



A E401 ONE LINE DIAGRAM

CLIENT
UDOT CONNECTING COMMUNITIES
STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER
ARCHIPLEX GROUP
architecture • planning • design services
255 Crossroad Square
Slat lake City, UT 84115
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS
PVE Inc. Consulting Mechanical Electrical Engineers
1040 North 2200 West, Suite 100
Salt Lake City, UT 84116
Phone: (801) 359-3158
Fax: (801) 521-4114

PROFESSIONAL SEAL
REGISTERED PROFESSIONAL ENGINEER No. 154867 DEAN P. LEVORSEN STATE OF UTAH

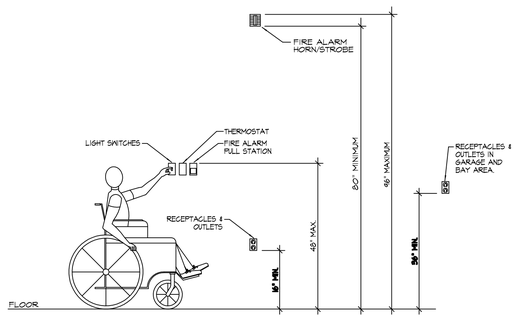
ISSUE

MARK	DATE	DESCRIPTION
	2-09	CONSTRUCTION DOCUMENTS
	1-19-09	90% REVIEW SUBMITTAL

DFCM PROJECT NO:	08300900
DFCM CONTRACT NO:	97236
ARCHIPLEX PROJECT NO:	0837.01
DRAWN BY:	PCH
CHECKED BY:	RKR
SCALE:	
DATE:	FEBRUARY, 2009

SHEET TITLE
ONE LINE DIAGRAM AND PANEL SCHEDULES

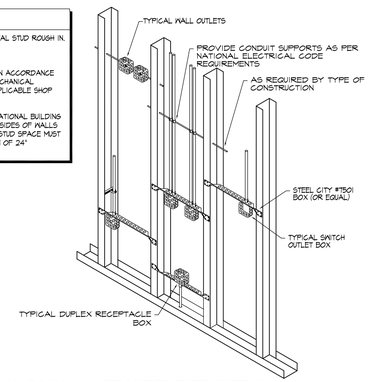
E401



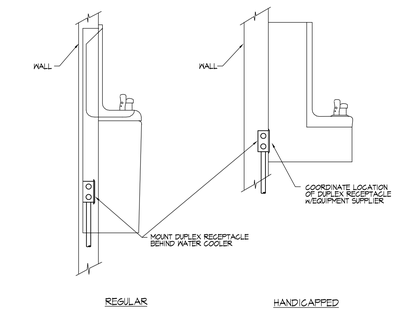
A E501 **MOUNTING HEIGHTS DETAIL**

NOTES:

1. TYPICAL FOR WOOD AND METAL STUD ROUGH IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.



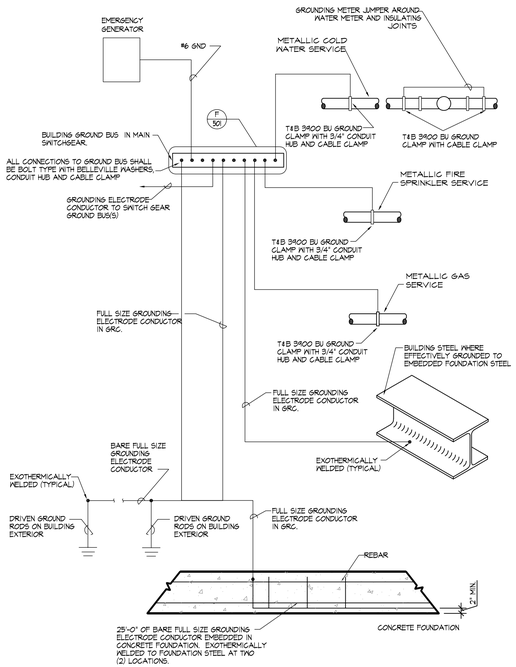
B E501 **TYPICAL ROUGH-IN REQUIREMENTS DETAIL**



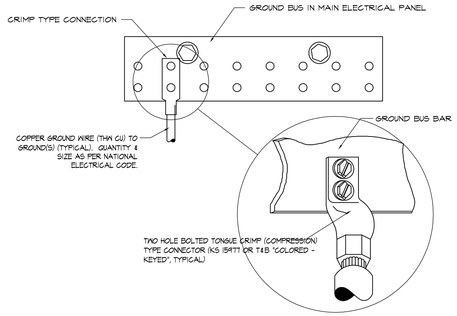
C E501 **ELECTRIC WATER COOLER DETAIL**

NOTE:

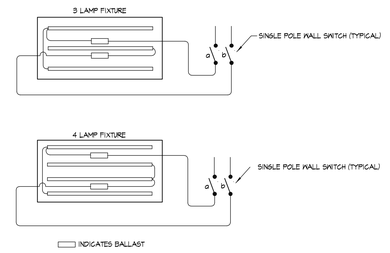
WHEN AVAILABLE CONTRACTOR SHALL PROVIDE ALL GROUNDING MEANS INDICATED. CONTRACTOR SHALL REFER TO ELECTRICAL ONE LINE DIAGRAM FOR GROUNDING ELECTRODE CONDUCTOR SIZE. GROUNDING CONDUCTOR SIZE SHOWN ON THE ONE LINE DIAGRAM SHALL BE THE SAME FOR ALL METHODS OF GROUNDING SHOWN IN THIS DETAIL. CONTRACTOR SHALL REFER TO ELECTRICAL SPECIFICATIONS FOR SPECIFICS OF GROUNDING SYSTEM INSTALLATION AND MATERIALS



E E501 **SERVICE GROUNDING DETAIL**



F E501 **SERVICE BUS GROUNDING DETAIL**



G E501 **DUAL LEVEL SWITCHING DETAIL**

CLIENT

UDOT CONNECTING COMMUNITIES

STATION #4435A
50 FRONT STREET
SCOFIELD, UTAH 84526

DESIGNER

ARCHIPLEX GROUP
architecture • planning • design services
255 Crossroad Square
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P:(801) 961-7070
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SHEET TITLE

ELECTRICAL DETAILS

E501